

CHARGER

DEPRESSED CENTRE DISCS

Performance breakthrough at a new low price



- A proven 75% longer life than conventional Aluminium Oxide Wheels.
- Reduces grinding cost and time and minimizes operator fatigue.
- Effectively grinds a wide range of metals - from alloys and stainless steel to grey iron
- Ideal choice for a variety of fabrication jobs.

NORTON

Lowering your costs, not your expectations.

**GRINDWELL
NORTON LTD.**



Versatile performance in weld shops and fabrication sites

Why Charger DCDs?

Simply because they don't just satisfy all the customer expectations, they surpass his expectations. Indeed, a better product in its class is yet to arrive. Thanks to the Norzon abrasive combined with the advanced phenolic bond system that is engineered to a greater hardness, strength and durability. Now you don't have to settle for second rate performance to get economically priced DCDs. In field tests, the new **Charger** DCDs lasted a minimum of two times compared to competitive products.

Norzon – the Wonder Abrasive

Norzon, the remarkable abrasive grain, belonging to the Zirconia Alumina abrasive family, is obtained through a fusion of Zirconium Oxide and Aluminium Oxide. The alloy thus obtained scores over regular Aluminium Oxide in terms of sheer hardness and strength and hence is capable of:

- Grinding at much faster cutting rates, no matter however big the stock.
- Retaining its cutting 'edge' for much longer than conventional Aluminium Oxide wheels.
- Substantially cutting grinding cost as compared to the conventional abrasive wheels.

Born to live longer

The wonder Norzon abrasive grain is highly resistant to impact and can retain its cutting edge for a much longer period. Likewise the new advanced Norton bond system offers a precise degree of hardness, excellent binding strength and higher durability. The result - lower overall wheel wear which means less number of wheels are needed to complete a job.

Easier, effortless cutting

The sharp abrasive grain makes for easier, effortless grinding, thereby virtually taking away the fatigue of the operator. With its power to penetrate steel with ease, the

grinding operation needs less pressure. The low imbalance of the wheels ensures vibration-free grinding. This enhances the operators' performance and augments the machine output as well.

Remarkable built-in safety

Every Charger DCD comes with three high quality fibre glass reinforcements that impart the much-needed extra ruggedness to withstand high-speed grinding upto even 80 m/sec. Thus making it totally safe for heavy duty use at weld shops and fabrication sites.

Stock Items

Stock No.	Size
ND14	180 x 4 x 22.23
ND3	180 x 5 x 22.23
ND1	180 x 7 x 22.23
ND2	230 x 7 x 22.23

Case Study # 1

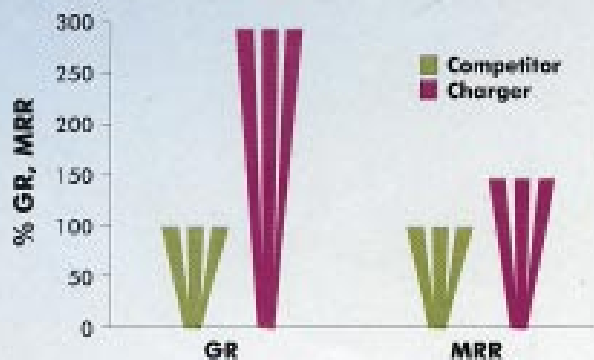
Customer : Fabrication
Job Description : Edge preparation of MS plate
Material : RQT701 – Hardness 260-280 BHN

Customer tried Charger wheel and a competitor's product on an identical job for same length in surfacing mode. The result was:

Product	Competitor	Charger
Dia reduction	31	10
Time taken	15.5 Min.	10.75 Min.
GR	0.41 mm ³ /mm ³	1.205 mm ³ /mm ³
MRR	23 mm ³ /s	36 mm ³ /s

The wheel life was found to be 3 times the competitor's product. It also gave a higher cut-rate.

CHARGER PERFORMANCE VERSUS COMPETITOR



Case Study # 2

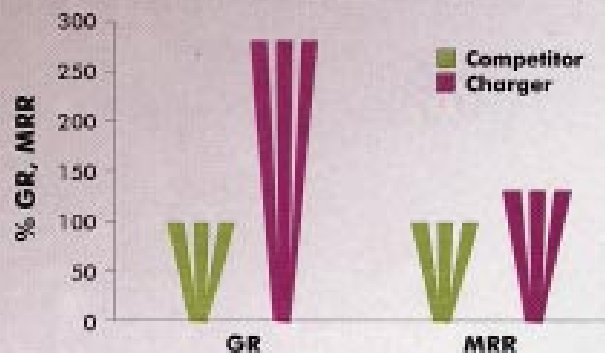
Customer : Fabrication
Job Description : Backchipping of welding joint of 12 mm plate
Material : CS 516-70

Customer was using a competitive product and following observations were found when he tried out Charger DCD:-

Product	Competitor	Charger
Initial Dia	180	180
Final Dia	110	125
Length ground	96 cms.	227 cms.
Time taken	19 min.	33 min.
GR (Length/wt.)	3.31 mm ³ /gms	9.28 mm ³ /gms
MRR (Length/min.)	51.61 mm ³ /min.	69.42 mm ³ /min.

The wheel life was found to be 2.8 times of the competitive product.

COMPARISON OF CHARGER WITH COMPETITION



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