

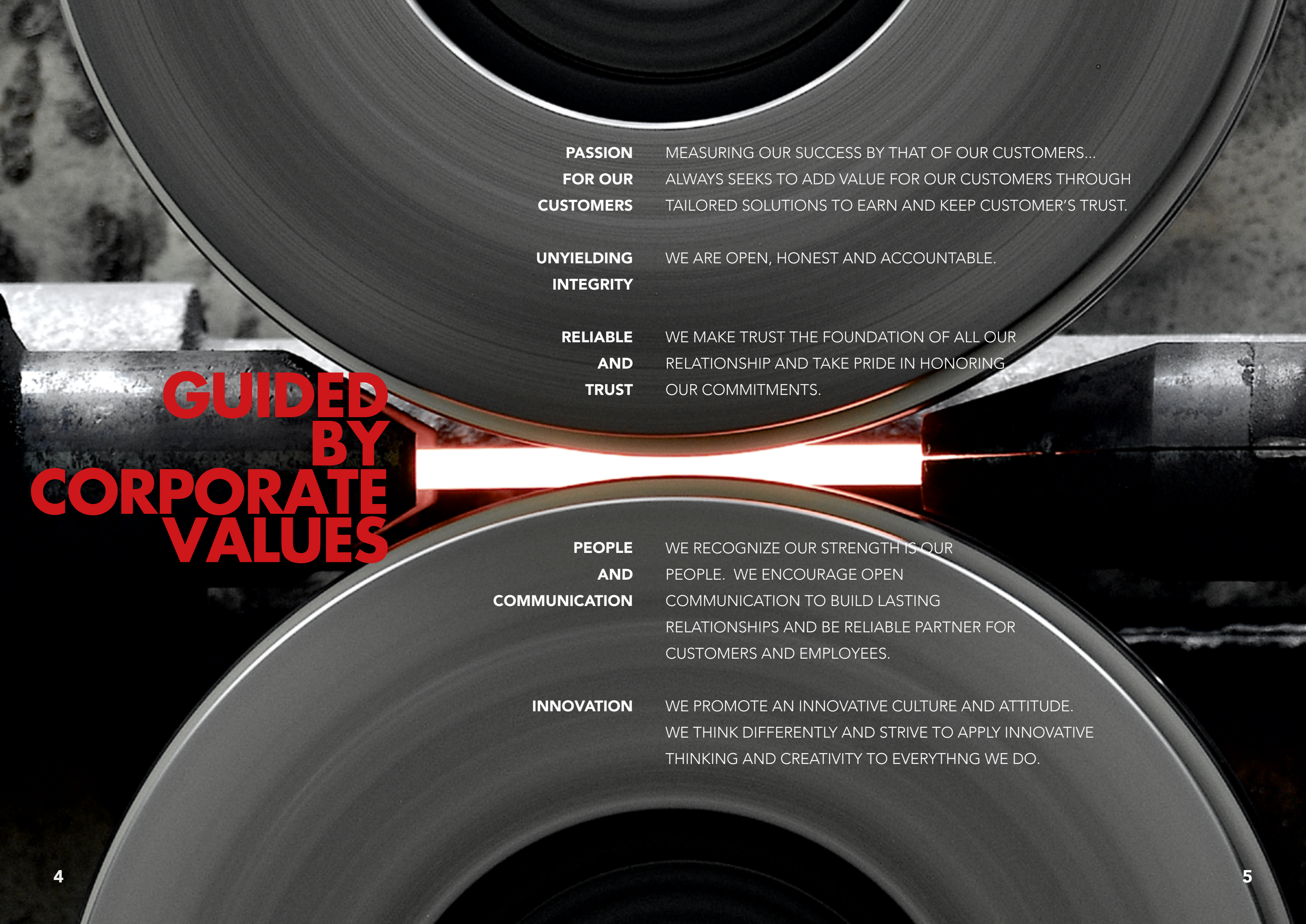
A black and white photograph of a stack of PCC Carbide drill bits. The bits are arranged vertically, with the top bit's flutes clearly visible. A central black vertical rectangle serves as a background for the company logo. The logo consists of the letters 'PCC' in a large, bold, white sans-serif font, followed by a thin red horizontal line, and the word 'CARBIDE' in a smaller, bold, white sans-serif font below it.

PCC

CARBIDE

**20 YEARS
EXPERIENCE
COMMITMENT
HELPING
STEEL MILLS
ACHIEVE
MAXIMUM
PRODUCTIVITY
AND EFFICIENCY**





GUIDED BY CORPORATE VALUES

PASSION FOR OUR CUSTOMERS

MEASURING OUR SUCCESS BY THAT OF OUR CUSTOMERS...
ALWAYS SEEKS TO ADD VALUE FOR OUR CUSTOMERS THROUGH
TAILORED SOLUTIONS TO EARN AND KEEP CUSTOMER'S TRUST.

UNYIELDING INTEGRITY

WE ARE OPEN, HONEST AND ACCOUNTABLE.

RELIABLE AND TRUST

WE MAKE TRUST THE FOUNDATION OF ALL OUR
RELATIONSHIP AND TAKE PRIDE IN HONORING
OUR COMMITMENTS.

PEOPLE AND COMMUNICATION

WE RECOGNIZE OUR STRENGTH IS OUR
PEOPLE. WE ENCOURAGE OPEN
COMMUNICATION TO BUILD LASTING
RELATIONSHIPS AND BE RELIABLE PARTNER FOR
CUSTOMERS AND EMPLOYEES.

INNOVATION

WE PROMOTE AN INNOVATIVE CULTURE AND ATTITUDE.
WE THINK DIFFERENTLY AND STRIVE TO APPLY INNOVATIVE
THINKING AND CREATIVITY TO EVERYTHING WE DO.

PCC CARBIDE HAS BEEN PRODUCING CARBIDE COMPOSITE ROLLS & RINGS FOR THE LAST 20 YEARS, ACCOUNTING AT LEAST 50% MARKET SHARE OF WORLD BIGGEST STEEL PRODUCING AND ECONOMY.

THE COMPANY IS COMMITTED TO THE HIGHEST ETHICAL PRACTICES WHEN CONDUCTING ITS BUSINESS. INTEGRITY AND STRONG CORPORATE GOVERNANCE PRACTICES WITH AN EMPHASIS ON TRANSPARENCY AND ACCOUNTABILITY ARE THE CORNERSTONES OF OUR BUSINESS.

EXPERIENCE, PROFESSIONALISM AND INTEGRITY HAVE CEMENTED PCC'S REPUTATION AS A RELIABLE COMPANY WITH WHOM LONG TERM PARTNERSHIPS CAN BE FORMED.

OUR GROWING NETWORK OF SKILLED ASSOCIATES IN MORE THAN 40 ECONOMIES IS READY TO DELIVER TECHNICAL SUPPORT AND COST-EFFECTIVE ROLLING SOLUTIONS TO CUSTOMERS ALL OVER THE WORLD.



ATTRITOR 38 UNITS



MECHANICAL PRESS 2UNITS 1000 TON
4 UNITS 630 TON
4 UNITS 500 TON
10 UNITS 300 TON

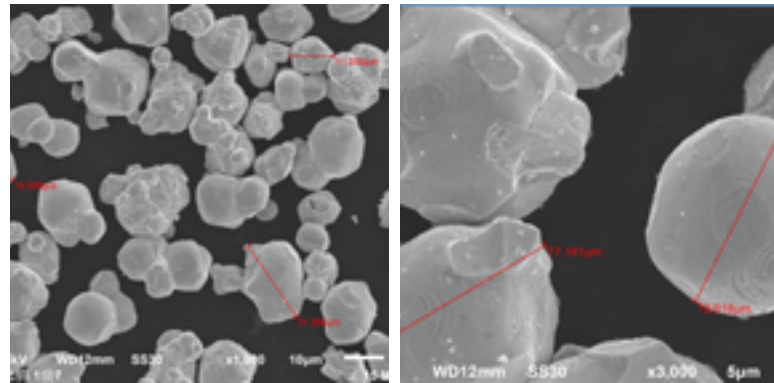


COD SINTER-HIP 3 UNITS
VACUUM SINTERING MACHINE



CNC LATHE 28 UNITS
CNC GRINDING MACHINE 20 UNITS
CNC NOTCHING MACHINE 4 UNITS





POWDER ENGINEERING

PCC HAS OVER 20 YEARS OF
EXPERIENCE IN THE
DEVELOPMENT AND
PRODUCTION OF
CEMENTED
CARBIDE POWDER

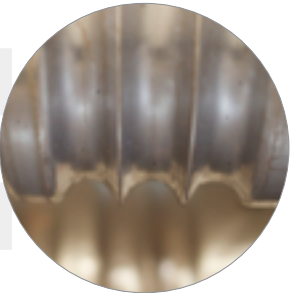


APPLICATION & GRADES

TRS	HARD- NESS ≥HRa	DENSITY (±0.15)	WC	Cr	Ni	Co	TUNGSTEN CARBIDE GRADES	INTERMEDIATE / PRE-FINISHING STAND				ROD BLOCK / FINISHING STAND										SIZING STAND			
								1	2	3	4	1	2	3	4	5	6	7	8	9	10	1	2	3	4
2800	88.0	14.7	92	→	8	←	PCR08																	•	•
2400	87.5	14.4	90	→	10	←	PCR10														•			•	•
2300	86.5	14.3	88	→	12	←	PCR12													•	•				
2650	85.0	14.0	85	→	15	←	PCR15							•	•	•	•	•	•	•	•	•	•		
2600	83.5	13.8	82	→	18	←	PCR18					•	•	•	•										
2500	82.5	13.5	80	→	20	←	PCR20					•	•	•	•										
2400	80.5	13.0	75	→	25	←	PCR25	•	•	•	•														
2300	79.0	12.7	70	→	30	←	PCR30	•	•	•	•														
2500	87.0	14.4	90			10	PCH10														•			•	•
2300	85.5	14.2	88			12	PCH12													•	•				
2600	85.0	14.0	85			15	PCH15							•	•	•	•	•	•	•	•	•	•		
2500	83.5	13.7	82			18	PCH18					•	•	•	•										
2500	83.0	13.5	80			20	PCH20					•	•	•	•										
2500	81.0	13.1	75			25	PCH25	•	•	•	•														
2400	80.0	12.7	70			30	PCH30	•	•	•	•														

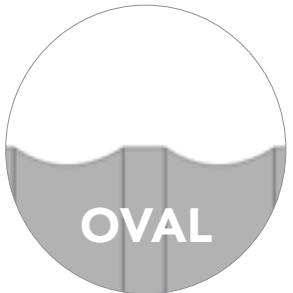
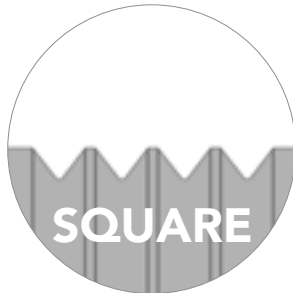


SIZING
REDUCING



INTERMDIATE

FINISHING



ROUND BAR INTERMEDIATE STAND

WIRE ROD FINISHING STAND



COMPOSITE
ROLL

DIAMETER (mm)	BARREL (mm)	GROOVE TYPE	GROOVE WIDTH (mm)	ROLLING TORGUE (ton·m)	ROLLING SPEED (m/sec)	PCC GRADE
350 - 500	500 - 900	OVAL ROUND	50 - 80 30 - 50	1.5 - 8.0	> 1.5	PCR30



STRETCH
REDUCER
RING

DIAMETER (mm)	BARREL (mm)	PRODUCT TYPE	PRODUCT DIAMETER (mm)	ROLLING SPEED (m/sec)	PCC GRADE
300 - 370	25 - 90	OVAL ROUND	13 - 42	5 - 20	PCR25 PCR20 PCR18



CANTILEVER
RINGS

DIAMETER (mm)	BARREL (mm)	GROOVE TYPE	GROOVE WIDTH (mm)	ROLLING TORGUE (ton·m)	ROLLING SPEED (m/sec)	PCC GRADE
290 - 475	140 - 235	OVAL ROUND	40 - 70 20 - 40	1 - 4	3 - 10	PCR30



ROLL
RINGS

DIAMETER (mm)	BARREL (mm)	PRODUCT TYPE	PRODUCT DIAMETER (mm)	ROLLING SPEED (m/sec)	PCC GRADE
208 - 212	60 - 72	OVAL	5.5 - 12	10 - 20	PCR18
158 - 166	57 - 70	ROUND		20 - 120	PCR10



ROLL
RINGS

DIAMETER (mm)	BARREL (mm)	GROOVE TYPE	GROOVE WIDTH (mm)	ROLLING TORGUE (ton·m)	ROLLING SPEED (m/sec)	PCC GRADE
330 - 450	100 - 130	OVAL ROUND	30 - 80 20 - 50	1 - 6	1.5 - 12	PCR30



GUIDE
ROLLERS

PCC GRADE	TiC CONTENT	HARDNESS (HRC)	DENSITY (g/cm3)	TRS (MPa)
PCTC	50%	69	6.5	3800

PRECISION CONSISTENCY ACCURACY



THE PRODUCT SPECIFICATION AND QUALITY CONTROL IS MONITORED BY A HIGHLY QUALIFIED TEAM OF METALLURGISTS.

THIS ENSURES THAT THE OVERALL RING QUALITY IS MAINTAINED AND CAN BE INDIVIDUALLY TAILORED TO CUSTOMERS' SPECIFIC MILL CONDITIONS.



ALL RINGS ARE HARDNESS TESTED USING AN EQUOTIP HARDNESS TESTER.



ULTRASONIC TESTING IS CARRIED OUT AT SEVERAL STAGES OF MANUFACTURE. FIRSTLY, TO CHECK THE INTERNAL SOUNDNESS OF THE RING AND TO DETERMINE THE METALLURGICAL STRUCTURE OF THE BODY.

Global Distribution
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Japan • Korea
Malaysia • Mexico • Morocco
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Russia
Saudi Arabia • Singapore
South Africa • Spain • Switzerland
Taiwan • Thailand • Turkey
UK • Ukraine • USA
Vietnam

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Base 2. Liugou Industrial Park,
Penglai, Shandong
Base 3. Economic and Technological
Development Zone,

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