



## ITW Patents

ITW's customer back solutions are differentiated by innovative technology designed to meet the needs of today's users with specific focus on productivity, quality, and ease of use behind very strong brands. The list below of ITW products and associated patents may not be all inclusive. Other ITW products not listed may be protected by one or more patents. Additional patents may be pending in the U.S. and elsewhere.

### ITW Construction Products Patents

(Published 3/17/2020)

#### ITW Brands Fasteners

##### **Backer-On® -Cement Board Screws**

6926484	9856901			
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##### **E-Z Ancor® - Drywall Anchors**

7261505 (Twist-N-Lock™)	7266874	7611316 (Toggle Lock™)	7934895	8057147 (Stud Solver®)
8192123				

##### **Rock-On® - Cement Board Screws**

6926484	9856901			
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##### **Tapcon® - Concrete Screws**

6957557	7076989	7101134	7156600	7458759
8322960	10570943			

#### GRK Fasteners™

##### **R4™ - Multi-Purpose Screws**

6926484	8348575			
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##### **RSS™ - Rugged Structural Screws**

6789989	6926484	8591159	9086088	
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##### **FIN/TRIM™ - Head Screws**

6926484				
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## **PASLODE® Fasteners**

### **Brite 21° - Framing Nails**

7788787	7845889	8033005	8113027	8251686
8333538	8353658	8360703	8650740	

### **Brite 30° - Framing Nails**

7845889	8100618	8113027	8480500	8562268
8740714	8920094	9725670		

### **GC20 - Corrugated Fasteners**

9157228				
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### **Hot Dipped Galvanized 30° Framing Nails**

7273337	7416376	7641432	7845889	8100618
8113027	8353657	8480500	8740714	8920094
10197082				

### **tetraGRIP™ - Subfloor Fasteners**

7819614	8511961			
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## **PASLODE® Tools & Accessories**

### **All Season Framing Fuel (816008)**

7392922	7478740	7571841	7661568	10385285
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### **Compact 30° Framing Nailer (F325R)**

6592014	7918375	8074855	8348118	
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### **Cordless 16 Ga Finish Nailers (IM250Ali, IM250S-Li)**

6651862	6786380	7392922	8302831	
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### **Cordless XP Framing Nailer (CF325XP)**

7121441	7392922	8016046		
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### **Positive Placement® Metal Connector Nailers (F250S-PP, PF150S-PP)**

6808101				
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### **PowerMaster™ 30° Framing Nailers (F-350P, F350-S)**

6592014	8074855			
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### **quicklode™ Trim Fuel (816007)**

7392922	7571841	7661568	8302831	8939339
9802303				

## **PNA™ Construction Technologies**

### **Armor Edge® Joint Assembly**

6775952	8302359 (All Steel)			
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### **Diamond Dowel® System**

8303210 (Pocket Former)				
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### **Joint Stabilizer (JS5, JS6, JS7)**

7334963				
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### **PD<sup>3</sup> Basket® Assembly**

7481031	7716890	8381470		
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## **RACOR® Home Storage Solutions**

### **PHL-1R - Ceiling Storage Lift**

7527242				
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### **Tornado® Extended U-Hook (00510)**

D577575				
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### **Tornado® J-Hook (00515)**

D577576				
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### **Tornado® Ladder Hook (00525)**

D577989				
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### **Tornado® U-Hook (00500)**

D581771				
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### **Tornado® Zinc Extended U-Hook (26208)**

7661917	D550545	D558034		
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### **Tornado® Zinc J-Hooks (26202, 26203)**

7972100	D550545	D557595		
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### **Tornado® Zinc Ladder Hook (26204)**

7972100	D550545	D558029		
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### **Tornado® Zinc U-Hook (26207)**

7160074	7510360	D542126		
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**ITW Food Equipment Group Patents**  
(Published 9/6/2019; Updated 3/17/2020)

**BAXTER® Baking & Cooking**

**BVG400G – VersaOven™**

10408463				
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**DPC1S – Dehumidifying Proofing Cabinet**

6894252	9980494			
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**OV310 – Mini Rack Oven**

8201552				
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**OV500 – Rack Oven**

6837234 (Gas Models)	7527051	7297904		
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**PW – Proofer**

6894252	9980494			
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**RPW – Retarder/Proofer**

6894252	9980494			
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**HOBART® Weighing & Packaging**

**HT Series – Scale**

6846055	6884946	7041915	7131774	7886230
9377345	9377346	9417116	9494460	9562806
9752922	9810572	D720769		

**NGW – Wrapper**

6595259	6846055	7041915	7886230	8393133
9377345	9377346	9417116	9494460	9562806
9752922	9810572	D720769		

### **KAIRAK® Refrigeration**

#### **KBD – Prep Table**

9068773	9541321	10060669		
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#### **KBP – Prep Table**

9068773	9541321	10060669	10323875	
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#### **KRD – Prep Table**

9068773	9541321	10060669		
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#### **KS – Prep Table**

7228698	7587904	10323875		
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#### **KU – Undercounter**

7228698	7587904	10323875		
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### **TRAULSEN® Refrigeration**

#### **G-Series – Reach In**

7228698	9797650 (Glass Door Models)	10323875		
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#### **R&A Series – Reach In**

7228698	9797650 (Glass Door Models)	10323875		
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#### **RET – Even Thaw**

7119306 (2 Section Models)	7228698	10323875		
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#### **TB – Prep Table**

9068773	9541321	10060669	10323875	
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#### **TBC – Blast Chiller**

6311509	6550259			
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#### **TE – Equipment Stand**

7228698	7587904	10323875		
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**TS – Prep Table**

7228698	7587904	10323875		
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**TU – Undercounter**

7228698	7587904	10323875		
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**VULCAN® Cooking Equipment****Boil Out ByPass™ Feature on Fryers (ER, GR, VEG Series)**

7698994	8163098			
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**Dishwasher-Safe Removable Door on Ovens (VC5 Series)**

9618211				
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**Low Water Energy Feature on Steamers (EA, ET Series)**

10208964				
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**Modular Design on Ranges (Endurance™, EV, V Series)**

8424512	8578585			
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**PowerFry3™ & PowerFry5™ Fryers (TR, VK Series)**

7698994	8163098	9021941	9380912	D632131
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**PowerSteam™ Feature on Steamers (EA, ET, GA Series)**

7418960	8111072			
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**SonicSafe™ Feature on Steamers (EA, EO, ET Series)**

10357126				
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**VMCS Series - Clamshell Griddle Accessory**

10271685				
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**ITW Test & Measurement and Electronics Patents**  
(Published 3/7/2019)

**EVERY WEIGH-TRONIX®**

**BridgeMont® Truck Scales**

7004040				
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**Center of Gravity**

6552278				
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**Counting Scale**

D830212	D813067	9400207	9423289	9534732
9709436				

**EasiPost™**

7004040				
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**Eyecon®**

7599516	8682047	8861816		
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**Galaxy™**

D672262	9080911			
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**High Resolution Weighing**

D830212	D813067	9400207	9423289	9534732
9709436				

**Integral Fork Lift Scale**

9073738				
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**Load Cells**

9562802				
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**Pill Counting**

7599516	8682047	8861816		
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**Quartzell®**

D830212	D813067	9400207	9423289	9534732
9709436				

**Smart Junction Box**

6552278				
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**Streamline™**

9234809				
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**WeighBar®**

7004040				
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**Weigh Legs**

6693244				
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**ZM2xx Products**

D672262				
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**ZM/ZQ3xx Products**

D672262				
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**BROOKS INSTRUMENT®****B950**

D584179	D590734			
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**Coriolis Flow Controller**

7991510				
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**Coriolis – Low Flow**

8100382				
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**CMX – Pressure Sensor Control Product**

6701790	6734659	7131334		
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**CMX II – Pressure Control Products**

6910381	7010983	7720628	7490518	
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**Flow Metrology Tool**

7412986	7424895			
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**GF 40/80**

8100382				
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**GF 100 Series**

7748268				
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**GF 125 EtherCAT**

7222029	7412336			
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**GF 125 with Self Diagnostics**

9410834	9739655	10048105		
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**GF 135**

8504318	9507351	9739655	9810377	
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**GF 225**

9760096				
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**GF High Flow Products**

9464729				
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**GF Series Thermal Mass Flow Controller (MFC)**

6845659	6962164	7043374	7073392	7082824
7114511	7231931	7272512	7273063	7380564
7434477	7636640	7720617	7905139	8010303
8068999	8751180			

**GP200 – Pressure Based Mass Flow Controller (MFC)**

7222029	7412336	9562796	10114387	
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**IFC 125 PTI Thermal Mass Flow Controller (MFC)**

6845659	7082824			
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**Liquid Flow Controller (LFC) Ultrasonic**

7991510				
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**SLA 7840**

8100382				
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**Solid Sense® II - Positive Pressure Measurement Tool**

7131334				
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**Thermal Mass Flow Controller (MFC)**

7243035	7363182			
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**VAI / VAP Product**

6321604	6883388	6901813		
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**Vapor Delivery Module (VDM300)**

7680399	7991510			
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**BUEHLER®**

**AbrasiMatic® 300 Sectioning Product**

D604344				
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**AbrasiMatic® 450 Sectioning Product**

1001116				
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**EcoMet® & AutoMet® Grinder Polisher**

8465347	8574028	9180571	D585914	
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**SimpliMet® XPS1 Compression Mounting Product**

9645058				
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**Wilson® Series Product**

9496099	7004017			
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**INSTRON®**

**Advanced Video Extensometer (AVE)**

7047819	7610815			
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**AutoX™**

9551560				
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**Biomedical Text Fixtures**

9746402				
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**Durasynch™ Grips**

9744676				
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**Electropuls® - All E1000, E3000 & E10000 Systems**

8151650	8602177			
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**ElectroPuls® Biax**

8393225				
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**KPX, KN, HDX Machines**

7913574				
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**KPX, KN, HDX Series High Force Static Hydraulic Testing Machine**

7540201				
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**Manual Wedge Grips**

7500401				
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**Optical Strain Gauge (OSG) Extensometer**

9243895				
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**Wave Matrix® Software Option**

10107731				
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**2712-04X series Pneumatic Grips**

8448522	9377385			
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**2712-04X Series Pneumatic Grips**

8757004				
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**5944XY Test System**

9797699	9797820			
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**ITW Welding Patents**  
(Published 3/7/2019)

**Millermatic®**

7262387	7235759	7208699	7138601	7105776
7046111	6977358	6974933	6794976	6720527
6707002	6633485	6536644	6531684	6329636
7755000	7985940	7301124	7700893	8658942
7800018	7465901	7339135	7323658	7423238
7429712	7411147	7336512	7355141	8536488
8890031	7977604	9731152	8824175	8629373
7777447	9399263	9000329	8552339	8278601
D611074	9289844	9636768	9592565	9604303

**Invision™**

7235759	6329636	7336512	8395085	
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**Spectrum® / AirForce® (Plasma Cutting)**

7235759	7186944	7046111	7034244	6781085
6720527	6707000	6633485	6329636	6194682
7807937	8263896	7465901	7336512	7375305
7411149	7781699	8710396	8153925	8373084
8558138	8552339	8278588	8378249	9931708
8637786	8729422	8586892	8901451	9040868
8772668	D683774	8901450	8754348	D698378
9162314	9120182	9132502		

**Handler®**

7208699	6536644	6204479	7755000	7977604
8278601				

**Hobart™ Wire**

8907248	8119951	6608284	8158907	6723954
7087860	9950394	9527152	9707643	9199341
9999944	10016850	9770787	9895774	10112268
9770788	9844838	9162323	9604315	

**Ironman™**

7208699	6204479	7755000	7909284	8278601
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**Dimension™**

7351932	7307239	8546726	8455794	10112251
9669484	8884188	9862052	10150173	9818529
9144856	9492880	9737950		

**Deltaweld®**

8884188	7351932			
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**Dynasty®**

7265318	7235759	6801443	6770846	6750427
6489591	6329636	7336512	7377825	9180544
7682208	7381924	10112251	9093912	9700965
9862052				

**Maxstar®**

7265318	7235759	7046111	6861586	6794976
6770846	6750427	6720527	6648698	6633485
6489591	6329636	7465901	7336512	7375305
7377825	7682208	8558138	8552339	7381924
9381592				

**Diversion™**

6801443	6720527	7465901	8552339	9174295
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**Syncrowave®**

7265318	6504738	6329636	7301122	7326879
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**CST™**

8179100	9174294	9764408		
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**Fusion™**

6348671				
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**Blue Star®**

8476555				
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**Bobcat™**

6954131	6603097	6531685	6469276	7315231
7288740	7870915	9796037	9109549	9718141
9724778	9587593	9803572	9863374	

**Trailblazer®**

7265319	7265318	7211764	6812584	6603213
6469276	6121691	7858904	7297899	7858903
8188708	9000328	8921735	8653415	8604385
8125094	8969762	8759714	8502115	8115328
9109549	9457417	8338971	9380717	9266183
9676053	9162309	8922034	8859937	9381593
9407185	9587593	9821398	9604302	9888592
9803572	9863374			

**Big Blue®**

7265318	7261522	7044999	6933465	6883540
6753503	6674046	6659723	6624543	6479794
6310320	7858903	9174294	9539662	9764408

**Enpak®**

7870915	8833066	8261717	8464526	8342150
7908911	8845300	8627797	8459958	9835181
8893679	9206780	10001148		

**SuitCase® Feeder**

7205503	7041937	6479795	8487216	9505076
10076803	9254984	9399561	10076809	9616516
9902008	8658940			

**Continuum®**

7235759	7129443	6995338	6933466	6909067
6329636	8598492	8492678	8704131	8592723
9737951	8604386	8546726	9102000	8455794
9506958	9511444	9174294	9862051	10112251
9403231	9227262	9119023	9712947	9449498
9270520	10155278	9844828	9399561	9833858
10118241	9517525	9102347	10046411	D727986
D751033	D731968	9517522	9684303	9665093
9616516	9704140	9808882	8927903	8884188
9862052	9144856	9314865	6242711	9756456
9492880	9764408	9919377	9718142	9987701
9737950				

**XMT™**

7235759	7138601	6329636	7336512	8395085
8357007	9061367	8431864	8330077	9142909
8624161	8779329	9902008	9024234	9902012

**Pipeworx™**

7129443	6933466	6909067	6794976	6750427
6479792	6329636	8598492	7952051	8264188
9156103	9878393	9463523	9149892	D682785
9314867	9808882	8927903	9764407	9314865
9718142	9782851			

**Multimatic®**

7235759	7046111	6794976	6720527	6633485
6536644	6329636	7465901	7336512	7977604
8552339	10112251	9636768	9862052	

**Subarc™ Systems**

9862053				
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**Automation Systems**

8362394				
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**Weld Intelligence™ Systems**

9862048	9174294	8809738	9862051	9669484
10012962	9684303	9665093	9704140	6583386
6242711	9764408			

**Induction Heating systems**

7019270	7015439	6956189	6727483	6347025
8115147	7696458	7122770	8038931	7786415
9662735	9913320			

**Fume Extraction Systems**

9821351	9468958	9498805	9505042	9604266
9505041				

**Feeders**

7238918	7208698	6809286	7465902	7374074
7285746	7531768	7390989	7615723	7389900
8269143	8395085	8237087	9102000	8373094
8963046	9844828	9399561	9616516	

**PPE and Accessories**

10016008	10034510	9999546	D769535	D769542
D769543	D777987	D770689	D776360	D782120
D776359	D779128	D781502	D804107	D803486

**Weld Training**

9352411	9101994	9368045	9583014	9583023
9666100	9713852	9672757	9728103	9724788
9751149	9757819	10056010	9937578	9862049
9724787				

**MIG Guns and related Accessories and MIG Consumables**

7238918	7105775	6720528	6689987	6525297
6444950	7767934	7576300	8633422	6987244
9138824				

**TIG Torches and related Accessories and TIG Consumables**

9006610	6797923	6855905	6930281	
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