MEMORANDUM

Agenda Item No. 8(H)(2)

TO:	Honorable Chairwoman Rebeca Sosa and Members, Board of County Commissioners	**DATE:**	September 4, 2013
FROM:	R. A. Cuevas, Jr. County Attorney	**SUBJECT:**	Resolution approving reimbursement to Domingo Morua, in an amount not to exceed $2,264.30, for the theft/loss of personal tools stolen from County property

The accompanying resolution was prepared by the Park, Recreation and Open Spaces Department and placed on the agenda at the request of Prime Sponsor Senator Javier D. Souto.

R. A. Cuevas, Jr.
County Attorney

RAC/lmp

Memorandum

MIAMI-DADE COUNTY

Date: September 4, 2013

To: Honorable Chairwoman Rebeca Sosa
and Members, Board of County Commissioners

From: Carlos A. Gimenez
Mayor

Subject: Resolution authorizing the reimbursement of stolen tools while stored on County Property to Domingo Morua pursuant to Section 2-11.13 of the Miami-Dade County Code and Administrative Order 7-23.

Recommendation

It is recommended that the Board of County Commissioners (Board) approve the attached resolution which authorizes the reimbursement of tools, in an amount not to exceed $2,264.30, to Domingo Morua, a maintenance mechanic with Parks, Recreation and Open Spaces Department, that were stolen while stored on County property.

Scope

This item complies with Administrative Order 7-23; Reimbursement to County Employees for Loss of Personal Property and Section 2-11.13 of the Code of Miami-Dade County.

Fiscal Impact/Funding Source

The fiscal impact to the County is in the amount of $2,264.30. It is a one-time payment to Domingo Morua. The funding source is Park Recreation and Open Spaces (PROS) General Fund.

Track Record/Monitor

PROS's Finance Division Chief, Michael Ruiz, will oversee the reimbursement to Domingo Morua.

Background

Pursuant to the provisions of Section 2-11.13 of the Miami-Dade County Code, it is the policy of Miami-Dade County to provide reasonable reimbursement to County employees for the loss or damage to their personal property when that loss or damage was incurred in the discharge of the employee's assigned duties, was not the result of the employee's negligence, and could not otherwise be compensated.

On December 11, 2011, Domingo Morua, Maintenance Mechanic, found that a hole was made in the wall of shed and personal tools were stolen. The incident was reported to the Miami-Dade Police Department and his supervisor confirmed the loss at approximately $2,264.30.

In presenting this claim for reimbursement, the Parks, Recreation and Open Spaces Department has complied with Section 2-11.13 of the Miami-Dade County Code and Administrative Order 7-23, "Reimbursement to County Employees for Loss of Personal Property." The request for reimbursement for Domingo Morua has been approved by the Internal Services Department (Attachment A) and the Office of Management and Budget, as required by the aforementioned administrative order.

Lisa M. Martinez, Senior Advisor
Office of the Mayor

MEMORANDUM
(Revised)

TO: Honorable Chairwoman Rebeca Sosa
and Members, Board of County Commissioners

DATE: September 4, 2013

FROM: R. A. Cuevas, Jr.
County Attorney

SUBJECT: Agenda Item No. 8(H)(2)

Please note any items checked.

_____ **"3-Day Rule" for committees applicable if raised**

_____ **6 weeks required between first reading and public hearing**

_____ **4 weeks notification to municipal officials required prior to public hearing**

_____ **Decreases revenues or increases expenditures without balancing budget**

_____ **Budget required**

_____ **Statement of fiscal impact required**

_____ **Ordinance creating a new board requires detailed County Mayor's report for public hearing**

_____ **No committee review**

_____ **Applicable legislation requires more than a majority vote (i.e., 2/3's ____, 3/5's ____, unanimous _____) to approve**

_____ **Current information regarding funding source, index code and available balance, and available capacity (if debt is contemplated) required**

Approved _____ Mayor
Veto _____
Override _____

Agenda Item No. 8(H)(2)
9-4-13

RESOLUTION NO. _____

RESOLUTION APPROVING REIMBURSEMENT TO DOMINGO MORUA, IN AN AMOUNT NOT TO EXCEED $2,264.30, FOR THE THEFT/LOSS OF PERSONAL TOOLS STOLEN FROM COUNTY PROPERTY, IN ACCORDANCE WITH SECTION 2-11.13 OF THE CODE OF MIAMI-DADE COUNTY AND ADMINISTRATIVE ORDER 7-23

WHEREAS, this Board desires to accomplish the purposes outlined in the accompanying memorandum, a copy of which is incorporated herein by reference,

NOW, THEREFORE, BE IT RESOLVED BY THE BOARD OF COUNTY COMMISSIONERS OF MIAMI-DADE COUNTY, FLORIDA, that this Board approves the reimbursement to Domingo Morua, in an amount not to exceed $2,264.30, for the theft of personal tools while stored on County property in accordance with Section 2-11.13 of the Code of Miami-Dade County and Administrative Order 7-23.

The foregoing resolution was offered by Commissioner , who moved its adoption. The motion was seconded by Commissioner and upon being put to a vote, the vote was as follows:

Rebeca Sosa, Chairwoman
Lynda Bell, Vice Chair

Bruno A. Barreiro	Esteban L. Bovo, Jr.
Jose "Pepe" Diaz	Audrey M. Edmonson
Sally A. Heyman	Barbara J. Jordan
Jean Monestime	Dennis C. Moss
Sen. Javier D. Souto	Xavier L. Suarez
Juan C. Zapata	

The Chairperson thereupon declared the resolution duly passed and adopted this 4th day of September, 2013. This resolution shall become effective ten (10) days after the date of its adoption unless vetoed by the Mayor, and if vetoed, shall become effective only upon an override by this Board.

MIAMI-DADE COUNTY, FLORIDA
BY ITS BOARD OF
COUNTY COMMISSIONERS

HARVEY RUVIN, CLERK

By:_____
Deputy Clerk

Approved by County Attorney as
to form and legal sufficiency. MAG

Miguel A. Gonzalez

ATTACHMENT A

Memorandum

MIAMI-DADE COUNTY

Date: February 25, 2013

To: Daniel J. Cullen, Director
ISD - Risk Management

From: Jack Kardys, Director
Parks, Recreation and Open Spaces Department

Subject: Request for Reimbursement for Loss or Damage to Personal Property Pursuant to Section 2-11.13(f) Code of Miami-Dade County $2,264.30

Attached hereto are the following:

-Request of Domingo Morua, employee of Miami Dade County, Parks, Recreation and Open Spaces Department, for reimbursement for loss or damage to personal property.

-Notice of Loss, as required by Section 2-2, of the Code of Miami Dade County.

We express and affirm that:

(1) The loss or damage was incurred in the discharge of the employee's duties on official County business;
(2) The loss or damage was not the result of the employee's negligence;
(3) The loss or damage was not caused by the negligence or willful act of a third party who is liable for said loss or damage, or that if said loss or damage was caused by the negligence or willful act of a third party, that it would be unreasonable to expect the employee to attempt recovery from the third party; and
(4) The amount of reimbursement for the loss or damage is reasonable.

It is requested that the Director of ISD- Risk Management and the Office of Strategic Business Management concur in these findings and forward the attached documents with their approval to the Mayor, if required, for his express and affirmative concurrence.

APPROVED	**Date**
Daniel J. Cullen, Director ISD - Risk Management Division	4-22-13
Jennifer Moon, Director Management and Budget Department	4/25/13

2013 MAR 19 AM 8:
RECEIVED
RISK MANAGER

Memorandum

MIAMI-DADE COUNTY

Date: October 11th, 2012

To: Steve Jablonowski
Golf Operations Manager

From: Domingo Morua
Maintenance Mechanic – Palmetto Golf Course

Subject: Request for Reimbursement for Loss to Personal Property

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I am requesting the reimbursement for loss to my personal tools used as a Maintenance Mechanic at Palmetto Golf Course.

Attached to this memo are the followings:

- Notice of Loss
- Miami Dade Police Department report.
- List of tools that were stolen and an estimate of the value for each tool with support of its value.

Attachments

NOTICE OF LOSS

Pursuant to Sections 2-2 and 2-11.13(f) of the Code of Miami Dade County, you are hereby notified that the undersigned employee Domingo Morua, County Id. 28714, of Miami Dade County, Parks and Rec Department will apply for reimbursement for loss or damage to personal property as authorized by Section 2-11.13(a) of the Code of Miami Dade County. The name and address of the owner of the lost or damaged property is:

In support of this claim for reimbursement, a copy of the police report, Case No. 111212494564, which sets out in detail the date, time, place, circumstances of the loss or damage, and the nature of the damage is attached. I request reimbursement in the amount of $2,264.30, for lost or damaged personal property.

Employee Signature: _____

Witness: _____ Date: 10/14/12

Loss of Personal Tools:

I, Marcus Prevatte, am the supervisor of the undersigned employee and affirm that:

The employee was in possession of the tools (attach list of tools and estimated values, including cost information source) and these were required for the job,

or

Prior to the loss/damage, the employee had on file an itemized list of the tools that he/she brought to work and to the best of my knowledge the tools have been damaged, lost or stolen.

_____ 09/10/12

Employee Supervisor's Signature Date

Marcus Prevatte

Print Name

Last Revised 5/16/07
Page 1 of 2

NOTICE OF LOSS

SUBROGATION AGREEMENT:

The undersigned employee further states that s/he does hereby subrogate to Miami Dade County, a political subdivision of the State of Florida, any claim for compensation damages or other reimbursement, either contingent or vested and s/he does hereby expressly authorize Miami Dade County to sue in the name of the employee or its own and does further expressly agree to affirmatively cooperate with Miami Dade County in any such action or claim for damages.

Employee Name: Domingo Morua
Print Name

Employee Signature: Domingo Morua

Witness: _____

Date: 10/19/12

SU | Related | In Report | Warr/Diamiss | 2. Supplement

ADM. Date of Supplement

MIAMI-DADE POLICE DEPARTMENT

Agency Report Number: PD 12 12494564

Original Day Dispatched: MON | Date: 12 12 11 | Time (mil): 06 19 | Time Dispatched (mil): 0622 | Time Arrived (mil): 0635 | Time Completed (mil): 0745

Incident Type: 1. Felony 2. Traffic Felony 3. Misdemeanor 4. Traffic Misdemeanor 5. Ordinance 6. Other

Incident Day From: SUN | Date: 12-11-11 | Time (mil): 2300 | To: MON | Date: 12-12-11 | Time (mil): 0619

EVENT DATA

OFF/INC	Type	Description	A-Attempted C-Completed	Statute Violation Number
# 1	1	BURGLARY (SHED)	C	810102
# 2				

Incident Location (Street, Apt. Number): 9300 SW 152 ST | City: MIAMI | Zip: 33157 | District: 08 | Beat: 174 | Area: 1 | Zone:

Business/Area Identifier: PALMETTO GOLF COURSE/STORAGE SHED | Forced Entry: 0. N/A 1. Yes 2. No | Occupancy: 0. N/A 1. Occupied 2. Unoccupied 3. Abandoned

Location Type: 01. Residence-Single 02. Apartment/Condo 03. Residence-Other 04. Hotel/Motel 05. Convenience Store 06. Gas Station 07. Liquor Sales 08. Bar/Nightclub 09. Supermarket 10. Dept/Discount Store 11. Specialty Store 12. Drug Store/Hospital 13. Bank/Financial Inst. 14. Commercial/Office Bldg. 15. Industrial/Mfg. 16. Storage 17. Gov't/Public Bldg. 18. School/University 19. Jail/Prison 20. Religious Bldg. 21. Airport 22. Bus/Rail Terminal 23. Construction Site 24. Other Structure 25. Parking Lot/Garage 26. Highway/Roadway 27. Park/Woodlands/Field 28. Lake/Waterway 29. Motor Vehicle 30. Other Mobile 99. Other | 16

# Offenses	# Victims	# Offenders	# Prem. Ent.	# Veh. Stolen	Type Weapon	
01	02	UNK	01	00	00. N/A 01. Handgun 02. Rifle 03. Shotgun 04. Firearm 05. Knife/Cutting Instrument 06. Blunt Object 07. Hands/Fist/Feet 08. Poison 09. Explosives 10. Fire/Incendiary 11. Threat/Intimidation 12. Simulated Weapon 13. Drugs 99. Other	00

CODES

V/W Code: V-Victim W-Witness C-Reporting Person P-Proprietor Z-Other

Victim Type: 0. N/A 1. Juvenile 2. L.E. Officer 3. Adult 4. Business 5. Government 6. Church 9. Other

Race: N-N/A W-White B-Black I-American Indian O-Oriental/Asian U-Unknown

Sex: N-N/A M-Male F-Female U-Unknown

Residence Type: 0. N/A 1. City 2. County 3. Florida 4. Out-of-State

Residence Status: 0. N/A 1. Full Year 2. Part Year 3. Non-Resident

Extent of Injury: 0. None 1. Minor 2. Serious 3. Fatal

Injury Type: 00. N/A 01. Gunshot 02. Stabbed 03. Laceration 04. Unconscious 05. Poss. Broken Bones 06. Poss. Internal Injury 07. Loss of Teeth 08. Burns 09. Abrasions/Bruises 99. Other

Victim Relationship To Offender: 00. N/A 01. Undetermined 02. Stranger 03. Spouse 04. Ex-Spouse 05. Co-Habitant 06. Parent 07. Brother/Sister 08. Child 09. Step-Parent 10. Step-Child 11. In-Law 12. Other Family 13. Student 14. Teacher 15. Child of Boy/Girl Friend 16. Boy/Girl Friend 17. Friend 18. Neighbor 19. Sitter/Day Care 20. Employee 21. Employer 22. Landlord/Tenant 23. Acquaintance 99. Other Known

VICTIMS/WITNESSES

OFF/INC Indicator 1. #1 2. #2 3. Both	V/W Code	#	V. Type	Name (Last, First, Middle or Business)	Residence Phone
1	V	1	4	PALMETTO GOLF COURSE	( )

Address (Street, Apt. Number): 9300 SW 152 ST | City: MIAMI | State: FL | Zip: 33157 | Business Phone: 305 238-2922

Other Contact Info. (Time Available, Interpreter, etc): | Synopsis of Involvement: VICTIM/OWNER OF SHED

# V/W Code V, W, or P	Race	Sex	Date of Birth or Age	Res. Type	Res. Status	Extent of Injury	Injury Type(s)	Relationship	Ethnicity	Will victim prosecute offenders?
	N	N	N	0	0	0	00	00		Yes ☐ No ☐

OFF/INC Indicator 1. #1 2. #2 3. Both	V/W Code	#	V. Type	Name (Last, First, Middle or Business)	Residence Phone
1	V	2	3	MORA, CONINGO	786 493-5240

Address (Street, Apt. Number): 9300 SW 152 ST | City: MIAMI | State: FL | Zip: 33157 | Business Phone: ( )

Other Contact Info. (Time Available, Interpreter, etc): | Synopsis of Involvement: VICTIM/OWNER OF DOGS

# V/W Code V, W, or P	Race	Sex	Date of Birth or Age	Res. Type	Res. Status	Extent of Injury	Injury Type(s)	Relationship	Ethnicity	Will victim prosecute offenders?
	W	M	01.10.1960	2	1		00	00		Yes ☐ No ☐

SUSPECT

OFF/INC Indicator 1. #1 2. #2 3. Both	Suspect Code A-Suspect B-Suspect Arrested	E-Escapee Z-Other	Code	#	Juvenile	Name (Last, First, Middle)
1			S	1		UNK

Alias Name | Nickname/Street Name | Place of Birth | Residence Phone ( )

Last Known Address (Street, Apt. Number) | City | State | Zip | Business Phone ( )

Occupation | Employer/School | Address | Social Security Number

Driver's License Date/Number | Immigration and Naturalization Number | Other I.D. Number | CBTS Number (Attested) | FCIC/NCIC

Clothing (Describe) | Scars/Marks/Tattoos (Location/Describe) | Hair Style

Race	Sex	Date of Birth or Age	Height	Weight		Eye Color	Hair Color	Hair Length
UNK	UNK	UNK						

Complexion | Build | Facial Hair | Teeth | Speech/Voice | Special Identifiers

NARRATIVE

POINT OF ENTRY/EXIT: HOLE MADE IN WALL OF SHED
METHOD: UNK
SCENE: NONE
AREA CANVAS: NONE/SURROUNDING AREA IS GOLF COURSE.

Person/Unit Notified | Time | Related Report Number(s)

ADMINISTRATIVE

Officer(s) Reporting: 4094 | I.D. Number(s)/Locator Code: 7115(U2) | Unit: CDU | Agency Code: 30

Officer Supervisor (Approving): Acuenda 3179 | I.D. Number | Routed To | Referred To | Approving Officer: [illegible]

Case Status | Clearance Type: 1. Arrest 2. Exceptional 3. Unfounded 4. Open Pend. | A-Adult J-Juvenile | Date Cleared | Det. Number | Number Arrested: 0

Exception Type: 1. Arrest on Primary 2. Death of Offender 3. Prosecution Declined | CBTS Number | Page

MIAMI-DADE POLICE DEPARTMENT

Date of Supplement:

Primary Report Number: P.D. 11 12 49 456H

Original Date Reported: 12 12 2011

Primary Offense Description: BURGLARY (SHED)

Victim #1 Name: PALMETTO GOLF COURSE

Type Theft: 00. N/A 01. Robbery/Burglary 02. Robbery/Shoplifting 03. Shoplifting 04. Pocket Picking 05. Purse Snatching 06. Embezzlement 07. From Coin Oper. Machine 08. From Public Access Bldg. 09. From Vehicle 10. Extortion 11. By Computer 12. Fraud 99. Other 01

Victim Code: /John B-Suspect P-Proprietor R-Arrestee Z-Other

Status Code: 1. Stolen 2. Recovered 3. Stolen and Recovered 4. Recovered for Other Jurisdiction 5. Lost 6. Found 7. Safekeeping 8. Evidence/Seized 9. Other

Damage Code: 0. N/A 1. Arson 2. Criminal Mischief 3. During other Offense 9. Other

CODES — Property Type: A. Auto Accessory/Parts B. Bicycle C. Camera/Photo Equipment D. Drug E. Equipment/Tool F. Food/Liquor/Consumable G. Gun H. Household Appliance/Goods I. Plant/Grains J. Jewelry/Precious Metal K. Clothing/Fur L. Livestock M. Musical Instrument N. Construction Machinery O. Office Equipment P. Art/Collection Q. Computer Equipment R. Radio/Stereo S. Sports Equipment T. TV/Video/VCR U. Currency/Negotiable V. Credit Card/Non-Negotiable W. Boat Motor X. Structure Y. Farm Equipment Z. Miscellaneous

PROPERTY

Person Code #	Item #	Status	Damage	Property Type	Quantity	Name	Brand	Model Name/Number
V1	1	9	3	X	1	SHED		

Serial Number: | Owner Applied Number: | Description (Size, Color, Caliber, Barrel Length, Etc.): HALF OUT | FCIC/NCIC:

Value: $ 1,001.00 | Value Recovered: $ | Date Recovered:

PROPERTY

Person Code #	Item #	Status	Damage	Property Type	Quantity	Name	Brand	Model Name/Number
V1	2	1	0	E	4	STAKES		

Serial Number: | Owner Applied Number: | Description (Size, Color, Caliber, Barrel Length, Etc.): | FCIC/NCIC:

Value: $ 500.00 | Value Recovered: $ | Date Recovered:

PROPERTY

Person Code #	Item #	Status	Damage	Property Type	Quantity	Name	Brand	Model Name/Number
V1	3	1	0	E		MISC ARM TOOLS		

Serial Number: | Owner Applied Number: | Description (Size, Color, Caliber, Barrel Length, Etc.): | FCIC/NCIC:

Value: $ 1,500.00 | Value Recovered: $ | Date Recovered:

PROPERTY

Person Code #	Item #	Status	Damage	Property Type	Quantity	Name	Brand	Model Name/Number
V1	4	1	0	E		MISC DRILL BITS		

Serial Number: | Owner Applied Number: | Description (Size, Color, Caliber, Barrel Length, Etc.): | FCIC/NCIC:

Value: $ 200.00 | Value Recovered: $ | Date Recovered:

PROPERTY

Person Code #	Item #	Status	Damage	Property Type	Quantity	Name	Brand	Model Name/Number
V1	5	1	0	E	1	KNEE BRACE		

Serial Number: | Owner Applied Number: | Description (Size, Color, Caliber, Barrel Length, Etc.): | FCIC/NCIC:

Value: $ 40.00 | Value Recovered: $ | Date Recovered:

PROPERTY

Person Code #	Item #	Status	Damage	Property Type	Quantity	Name	Brand	Model Name/Number
V1	6	1	0	E	1	GRINDER		

Serial Number: | Owner Applied Number: | Description (Size, Color, Caliber, Barrel Length, Etc.): | FCIC/NCIC:

Value: $ 1,05.00 | Value Recovered: $ | Date Recovered:

TOTALS

Property Stolen: $ 240.51.00 | Change in Property Stolen Value: $

Property Recovered: $ | Change in Property Recovered Value: $

CODES

Activity: P. Possess B. Sell B. Buy T. Traffic H. Smuggle D. Deliver E. Use K. Dispense/Dist/Rute M. Manufacture/Produce/Cultivate Z. Other

Type: A. Amphetamine B. Barbiturate C. Cocaine E. Heroin H. Hallucinogen M. Marijuana O. Opium/Derivative P. Paraphernalia/Equipment S. Synthetic U. Unknown Z. Other

Unit: 1. Gram 2. Milligram 3. Kilogram 4. Ounce 5. Pound 6. Ton 7. Liter 8. Milliliter 9. Dose Unit/Item

DRUGS

Activity	Type	Description	Quantity	Unit	Estimated Street Value
					$ .00
					$ .00
					$ .00

PROPERTY DETAIL/NARRATIVE

V1 AND V2 ADVISED THAT BETWEEN THE LISTED DATES AND TIMES, S1 (UNK) ENTERED LISTED PROPERTY AND TOOK LISTED ITEMS. 201

CAT (OCCD).

STRATEGIC

Officer(s) Reporting: WEST | ID Number(s)/Locator Code: 7985(8) | Unit: SCU01 | Date: 12/12/11

Officer Partner(s) (If Applicable): | ID Number: 2174 | Routed To: | Referred To: | Assigned To: | By: | Date:

MIAMI-DADE POLICE DEPARTMENT

PD 1 1 2 1 2 4 9 4 5 6 4

Date in Supplements

ARR

Original Date Reported: 12 1 2 2011

Primary Offense Description: BURGLARY (SHED)

Victim #1 Name: PALMETTO GOLF COURSE

ITEM

Type Theft: 01. N/A, 1. Larceny, 02. Robbery, 03. Shoplifting, 04. Pocket Picking, 05. Purse Snatching, 06. Embezzlement, 07. From Coin Oper. Machine, 08. From Public Access Bldg., 09. From Vehicle, 10. Extortion, 11. By Computer, 12. Fraud, 90. Other: 01

Bon Code: Victim, J-Bumped, P-Proprietor, A-Arrestee, Z-Other

Status Code: 1. Stolen, 2. Recovered, 3. Stolen and Recovered, 4. Recommend for Other Jurisdiction, 5. Lost, 6. Found, 7. Expediting, 8. Evidence/Seized, 9. Other

Damage Code: 0. N/A, 1. Arson, 2. Criminal Mischief, 3. During other Offense, 9. Other

CODES

Property Type: A. Auto Accessory/Parts, B. Bicycle, C. Camera/Photo Equipment, D. Drug, E. Equipment/Tool, F. Food/Liquor/Consumable, G. Gun, H. Household Appliance/Goods, I. Plant/Crop, J. Jewelry/Precious Metal, K. Clothing/Fur, L. Livestock, M. Medical Instrument, N. Construction Machinery, O. Office Equipment, P. Art/Collection, Q. Computer Equipment, R. Radio/Stereo, S. Sports Equipment, T. TV/Video/VCR, U. Currency/Negotiable, V. Credit Card/Non-Negotiable, W. Boat Motor, X. Structure, Y. Farm Equipment, Z. Miscellaneous

PROPERTY

Person Code #	Item #	Status	Damage	Property Type	Quantity	Name	Brand	Model Name/Number
V	1	9	3	E	2	LOCKS		

Serial Number | Owner Applied Number | Description (Size, Color, Caliber, Barrel Length, Etc.) | FCIC/NCIC

Value: $ 30 00 | Value Recovered: $ | Date Recovered

Person Code #	Item #	Status	Damage	Property Type	Quantity	Name	Brand	Model Name/Number
V	2	1	0	E		GOLF CARTS		

Serial Number | Owner Applied Number | Description (Size, Color, Caliber, Barrel Length, Etc.) | FCIC/NCIC

Value: $ 700.00 | Value Recovered: $ | Date Recovered

Person Code #	Item #	Status	Damage	Property Type	Quantity	Name	Brand	Model Name/Number
V	3	1	0	E	3	STIHL DRILL		

Serial Number | Owner Applied Number | Description (Size, Color, Caliber, Barrel Length, Etc.) | FCIC/NCIC

Value: $ 150.00 | Value Recovered: $ | Date Recovered

Person Code #	Item #	Status	Damage	Property Type	Quantity	Name	Brand	Model Name/Number

Serial Number | Owner Applied Number | Description (Size, Color, Caliber, Barrel Length, Etc.) | FCIC/NCIC

Value: $ | Value Recovered: $ | Date Recovered

Person Code #	Item #	Status	Damage	Property Type	Quantity	Name	Brand	Model Name/Number

Serial Number | Owner Applied Number | Description (Size, Color, Caliber, Barrel Length, Etc.) | FCIC/NCIC

Value: $ | Value Recovered: $ | Date Recovered

Person Code #	Item #	Status	Damage	Property Type	Quantity	Name	Brand	Model Name/Number

Serial Number | Owner Applied Number | Description (Size, Color, Caliber, Barrel Length, Etc.) | FCIC/NCIC

Value: $ | Value Recovered: $ | Date Recovered

TOTALS

Property Stolen: $ 850 00 | Change in Property Stolen Value: $

Property Recovered: $ | Change in Property Recovered Value: $

CODES

Activity: P. Possess, S. Sell, B. Buy, T. Traffic, R. Smuggle, D. Deliver, E. Use, K. Dispense/Distribute, M. Manufacture/Produce/Cultivate, Z. Other

Type: A. Amphetamine, B. Barbiturate, C. Cocaine, E. Heroin, H. Hallucinogen, M. Marijuana, O. Opium/Derivative, P. Paraphernalia/Equipment, S. Synthetic, U. Unknown, Z. Other

Unit: 1. Gram, 2. Milligram, 3. Kilogram, 4. Ounce, 5. Pound, 6. Ton, 7. Liter, 8. Milliliter, 9. Dose Unit(ion)

DRUGS

Activity	Type	Description	Quantity	Unit	Estimated Street Value
					$ .00
					$ .00
					$ .00

PROPERTY DETAIL/NARRATIVE

SIGNATURES

Officer(s) Reporting: [illegible] | Id Number(s)/Locator Code: 7985(4) | Unit: 2107 | Date: 12/12/2011

Officer/Reviewer (If applicable): [illegible] | ID. Number: 3[illegible] | Routed To | Referred To | Assigned To | By | Date

Part #	Description	Price	Page #
34588	1/2" Ingersoll-Rand 450/600 ft lb max torque air impact wrench	257.50	2660
42254	1/2" Ingersoll-Rand 450 ft lb max torque air impact wrench	272.50	2660
42623	3/8" Ingersoll-Rand 180 ft lb max torque air impact wrench	191.00	2658
4KR76	3/8" Ingersoll-Rand 70 ft lb max torque air ratchet	200.00	2656
62918	3/8" Ingersoll-Rand 0.5 hp keyed/reversible air drill	157.00	2668
6JT98	1/2 hp Dayton Straight Die Grinder	100.25	2671
62562	Ingersoll-Rand .33 hp right angle grinder	144.75	2672
6W381	Ingersoll-Rand 10,000 strokes/min reciprocating air saw	110.55	2685
4AYX9	4-1/2" Makita electric angle grinder	89.00	3265*
62330	3/4" Milwaukee electric drill	532.00	1031
14196	29 pc. Cobalt split-point drill bit set	209.75	1350

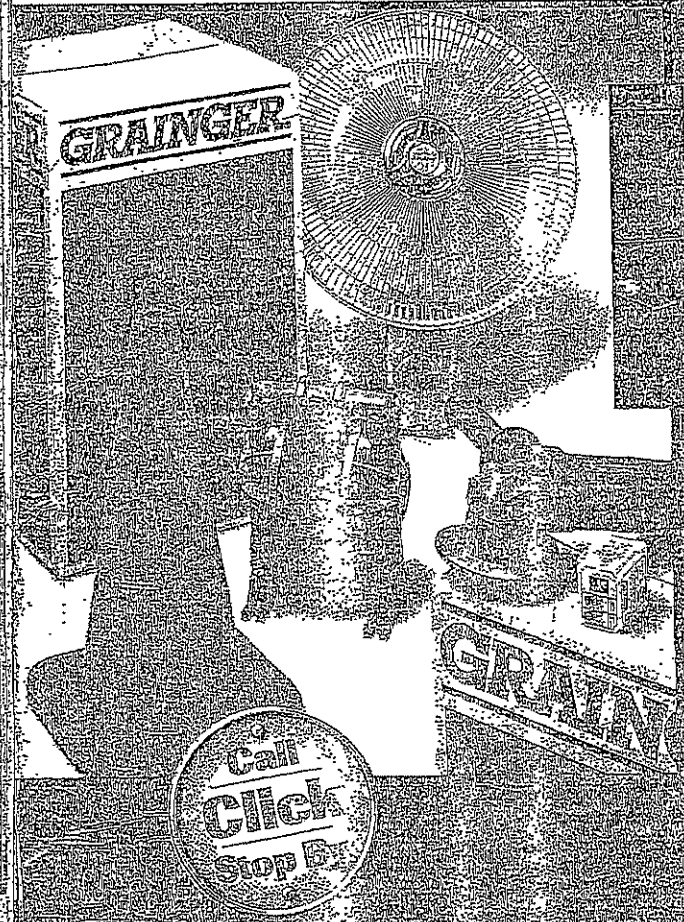
Tools stolen on 12-10-2011

All items from Granger catalog #394 except *catalog #402

Total $2,264.30

257.50 +
272.50 +
191.00 +
200.00 +
157.00 +
100.25 +
144.75 +
110.55 +
89.00 +
532.00 +
209.75 +
2,264.30

GRAINGER



- Find the branch you're looking for on pages 3483-3488.
- Order OEM parts for many of our products. See pages 3489-3495.

(1) 5S394

Branch Listings & Indexes

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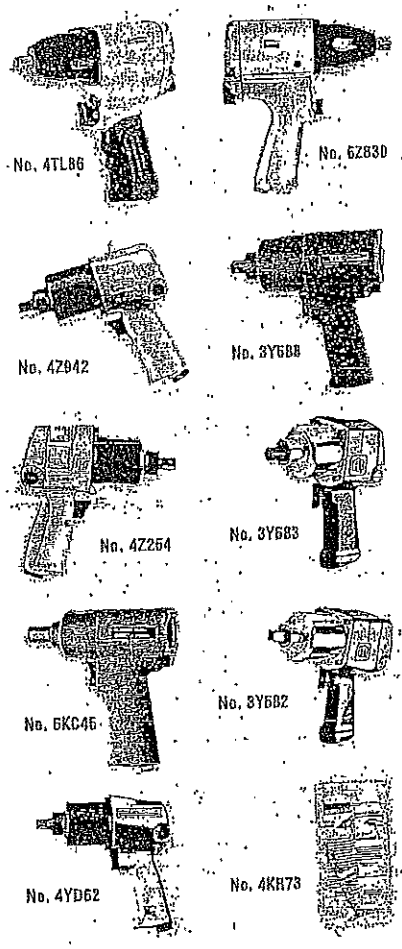

Industrial-Duty 1/2" Impact Wrenches

DAYTON IMPACT WRENCH NO. 4TL86

Features contoured polyurethane grip, patented Silent-X exhaust for quiet operation. Has 3-step power regulator, steel hammer case, pin-type socket retainer, and thru-handle exhaust.

DAYTON IMPACT WRENCH NO. 6Z830

Features Dynapact® impact mechanism, steel impact housing, three-position forward power regulator and full power in reverse, with through handle exhaust.

1/2" INGERSOLL-RAND IMPACT WRENCH NO. 4Z942

Features twin hammer impact mechanism, steel impact housing, pressure feed lubrication for impact mechanism, push button forward/reverse control, and multi-position regulator.

1/2" INGERSOLL-RAND IMPACT WRENCH NO. 3Y588

Innovative motor design and power management system deliver 600 ft.-lbs. in reverse, and up to 4 position power regulator in forward that delivers up to 450 ft.-lbs. of torque. The unit features twin hammer impact mechanism, one hand push button forward/reverse control, 360 degree swivel air inlet, and handle exhaust.

1/2" INGERSOLL-RAND IMPACT WRENCH NO. 4Z254

Features twin hammer impact mechanism, steel impact housing, pressure feed lubrication for the impact mechanism, push button forward/reverse control, and multi-position regulator.

1/2" INGERSOLL-RAND IMPACT WRENCH NO. 3Y583

Durable epoxy coated motor housing and handle. Features jumbo hammer impact mechanism, chrome-plated steel impact housing, pressure feed lubrication for the impact mechanism, built-in lubricator for motor, integral muffler, push button forward/reverse control, and multi-position regulator.

1/2" INGERSOLL-RAND IMPACT WRENCH NO. 3Y582

Incorporates two-piece motor housing for easier maintenance. Features twin hammer impact mechanism, chrome plated steel impact housing, pressure feed lubrication for the impact mechanism, durable epoxy coated motor housing and handle, built-in lubricator for motor, integral muffler, push button forward/reverse control, and multi-position regulator.

1/2" INGERSOLL-RAND MODEL NO. 4YD62

Two-piece housing for easy service and handle exhaust direct air away from operator or work area. Enhanced twin hammer mechanism for more power.

INGERSOLL-RAND IMPACT WRENCH CARE KIT NO. 4KR73

For all Ingersoll-Rand impact wrenches that have pressure feed lubrication for the impact mechanism, except Nos. 4Y948, 4Y944, and 8Y588. Kit includes 4 oz. impact hammer mechanism grease #105, grease gun, 4 oz. of air tool oil, and use & care instructions for the following IR impact wrenches: Nos. 4Y942, 4Z628, 2Z747, 4Y948, 6W380, 4Y852, 4Y857, 4Y860, 4Z253, 8Y596, 4Y904, 4Z255, 4Y900, 4Z942, 4Z254, 8Y578, 4Y260, and 8Y576.

Note: For impact mechanism terminology, see page 2657. For tool selection guide, see page 2655.

EXTENDED WARRANTY AVAILABLE

Torque Range (Ft.-Lbs.)	Max. Torque (Ft.-Lbs.)	Max. Bolt Dap. (in.)	Free Speed RPM	Retainer Type	Avg. CFM†	Max. Pressure psi	Air Inlet (in.)	Min. Hose (in.)	Length (in.)	Mfr.	Mfr. Model	Stock No.	Each	Shpg. Wt.
20-400	400	5/8	7500	Pin	6.0	90	1/4	3/8	7.5	Dayton	—	4TL86 ✓	$218.25	6.7
20-450	450	5/8	6000	Pin	8.0	90	1/4	3/8	7.5	Dayton	—	6Z830 ✓	200.00	5.7
40-200	400	9/16	8500	Pin	4.2	90	1/4	3/8	7.3	Ingersoll-Rand	2705P1	4Z942 ✓	188.00	6.5
50-400	450/600	9/16	9500	Pin	4.8	90	1/4	3/8	7.1	Ingersoll-Rand	2131P	3Y588 ✓	257.50	5.2
40-275	450	5/8	7750	Pin	5.4	90	1/4	3/8	7.3	Ingersoll-Rand	2707A1	4Z254 ✓	272.50	7.0
30-185	220	9/16	6000	Pin	3.5	90	1/4	3/8	5.7	Ingersoll-Rand	2803P1	3Y583 ✓	598.00	5.6
25-200	230	1/2	14,500	Pin	4.0	90	1/4	3/8	5.6	Ingersoll-Rand	2904P2	6KC45 ✓	318.75	3.5
40-350	500	5/8	5000	Pin	3.8	90	1/4	3/8	6.9	Ingersoll-Rand	2906P1	3Y582 ✓	620.50	7.1
25-300	450	9/16	8,000	Ring	4.2	90	1/4	3/8	7.3	Ingersoll-Rand	231H	4YD62 ✓	150.75	6.5
ACCESSORY														
Impact Wrench Care Kit										Ingersoll-Rand	—	4KR73	18.09	1.0

(†) Average CFM is based off of a 15 second run time.

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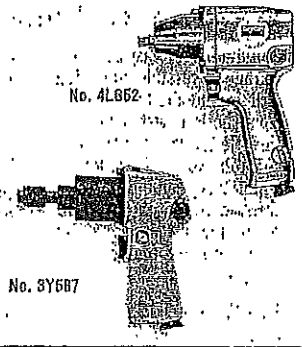

1/4" Impact Wrenches

GENERAL DUTY

Compact size makes it ideal for work in tight spots. Features a patented roller clutch which produces high energy impacts with fewer moving parts, multi-position power regulator for torque control, and 1/4" square drive.

INDUSTRIAL-DUTY

Features jumbo hammer mechanism and pressure feed lubrication for impact mechanism. Also includes steel hammer case, multi-position power regulator for torque control and 1/4" quick change anvil.

Note: For sockets, see index under "Sockets, Impact." For tool impact mechanism technology, see page 2657. For tool selection guide, see page 2655.

Torque Range (Ft.-Lbs.)	Max. Torque (Ft.-Lbs.)	Max. Bolt Cap. (in.)	Free Speed RPM	Retainer Type	Avg. CFM*	Max. psi	Air Inlet (in.)	Min. Hose Size (in.)	Overall Length (in.)	Mfr.	Mfr. Model	Stock No.	Each	Shpg. Wt.
GENERAL DUTY														
5-25	25	1/4	10,000	Ball	3.0	90	1/4	3/8	4¾	Dayton	—	4LG62 ✓	$104.55	2.6
INDUSTRIAL DUTY														
20-100	125	1/4	10,000	QC hex	2.2	90	1/4	3/8	6½	Ingersoll-Rand	1702P4	3Y587 ✓	310.75	3.6

(*) Avg. CFM is based off of a 15 second run time.

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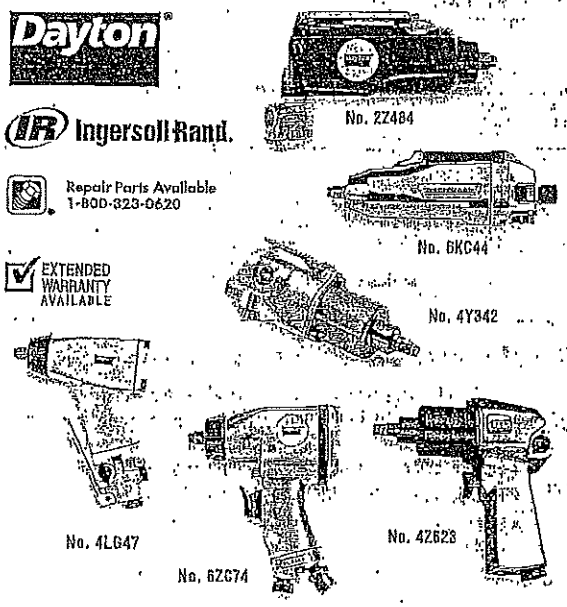

3/8" Impact Wrenches

GENERAL-DUTY DAYTON AND INGERSOLL-RAND IN-LINE BODY

Nos. 2Z484 and 6KC44 feature a "Butterfly" forward/reverse control, multi-position power regulator, and 360 degree air inlet swivel. No. 2Z484 has a rubber jacket for better grip. No. 4Y342 features Jumbo hammer mechanism, steel hammer case, lever throttle control, pressure feed lubrication for impact mechanism, and multi-position power regulator.

GENERAL-DUTY DAYTON ANGLE HEAD

Ideal for getting into tight spots. Unit features patented roller pin clutch hammer mechanism, lever throttle control, twist lever forward/reverse control, multi-position power regulator, and rubber nose piece.

DAYTON AND INGERSOLL-RAND TRIGGER CONTROLLED UNITS

No. 6ZC74 features patented roller clutch hammer mechanism, push button forward/reverse control, multi-position power regulator, and rubber nose piece. No. 4Z623 features jumbo hammer mechanism, steel hammer case, lever throttle control, pressure feed lubrication for impact mechanism, and multi-position power regulator.

Note: For sockets, see index in back of catalog under "Sockets, Impact."

Torque Range (Ft.-Lbs.)	Max. Torque (Ft.-Lbs.)	Max. Bolt Cap. (in.)	Free Speed RPM	Retainer Type	Avg. CFM*	Max. psi	Air Inlet (in.)	Min. Hose Size (in.)	Overall Length (in.)	Mfr.	Mfr. Model	Stock No.	Each	Shpg. Wt.
GENERAL-DUTY IN-LINE BODY														
10-75	75	3/8	11,000	Ring	3.0	90	1/4	3/8	4¾	Dayton	—	2Z484 ✓	$124.65	2.4
15-160	175	7/16	8,000	Ring	3	90	1/4	3/8	6¼	Ingersoll-Rand	216	6KC44 ✓	182.00	4.0
20-125	150	7/16	10,000	Ring	2.6	90	1/4	3/8	6¼	Ingersoll-Rand	211	4Y342 ✓	247.75	3.1
GENERAL-DUTY ANGLE HEAD														
10-90	90	3/8	9,000	Ring	3.0	90	1/4	3/8	6½	Dayton	—	4LG47 ✓	168.00	2.6
TRIGGER CONTROLLED UNITS														
10-75	75	3/8	10,000	Ring	3.0	90	1/4	3/8	6	Dayton	—	6ZC74 ✓	125.65	2.6
20-150	180	7/16	10,000	Ring	2.2	90	1/4	3/8	6	Ingersoll-Rand	212	4Z623 ✓	191.00	3.8

(*) Avg. CFM is based off of a 15 second run time.

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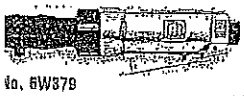
No. 5ZL16

No. 4LG56

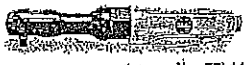


No. 6W379

New

No. 4Z406

No. 1MM28



No. 5ZL11

No. 6JT88

No. 6JT89

EXTENDED WARRANTY AVAILABLE

No. 5ZR89

Air Ratchets

1/4" DRIVE

Ratchets are excellent for running fasteners located in tight areas. Narrow drive heads also assist in getting in tight spaces. Small and lightweight. Ratchets feature ball detent for easy socket change, reversible operation, ball and needle bearing construction, and lever throttle for variable speed control, except Nos. 4Z947 and 4LG55 which have push button throttle.

Uses: In fenders or under dashboard work.

Light-Duty 1/4" Drive Ratchet No. 5ZL16
Features triple idler gear design for smooth operation and steel housing for long life. For use on small fasteners.

General-Duty 1/4" Drive Ratchet Compact Units Nos. 4LG56 and 6W379
Provide even more maneuverability in tight spaces.

General-Duty 1/4" Drive Ratchet Full Size Nos. 4LG55 and 4Z947
Feature good torque producing capabilities for tightening and loosening fasteners.

General-Duty 3/8" Drive Ratchet No. 4Z406
Features a powerful 1/2 HP motor with triple supported idler gears for fast rundown and high torque. Steel ratchet housing and yoke ensure long life.

General-Duty 3/8" Drive Ratchet No. 4Z241
Constructed with double needle bearings and technologically advanced head design. Extra durable. Features 360° exhaust.

General-Duty 3/8" Drive Ratchet No. 1MM28
Lightweight composite handle with molded palm swell provides superior comfort.

General-Duty 3/8" Drive Ratchet No. 4KR76
The fastest in its class. Can deliver up to 70 ft. of torque at 300 rpm. Features 360° exhaust.

General-Duty 3/8" Drive Ratchet No. 5Z273
A unique reactionless mechanism absorbs kickback when the nut runs tight. Features rear exhaust, deflecting air away from work.

3/8" DRIVE

Ratchets are ideal for running fasteners in and out quickly. Ball detent for easy socket change, reversible operation, ball and needle bearing construction, and lever throttle for variable speed control, except No. 4KR76 which has push button throttle.

Light-Duty 3/8" Drive Ratchet No. 5ZL11
Features triple idler gear design for smooth operation and steel ratchet housing for long life.

Light-Duty 3/8" Drive Ratchet Kit No. 5ZR89
Includes No. 5ZL11 ratchet wrench, 8" extension bar, 13/16" spark plug socket with 6 point sockets in the following metric S.A.E. sizes: 9-14 mm, 16mm, 17mm, and 19mm. 3/8, 7/16, 1/2, 9/16, 5/8, 11/16, and 3/4".

Light-Duty 3/8" Drive "Stubby" Ratchet No. 6JT88
Compact body ratchet for easy access into tight areas.

Light-Duty 3/8" Drive Ratchet No. 6JT89
Comfort grip handle reduces vibration to the operator.

Note: Air ratchets should be used with Impact sockets. Look in index under, "Sockets, Impact." For tool selection guide, see page 2655.

Torque Range (Ft.-Lbs.)	Max. Torque (lb.)	Free Speed RPM	Avg. CFM*	Max. psi	Air Inlet (in.)	Min. Hose Size (in.)	Head Width (in.)	Base To Top (in.)	Overall Length (in.)	Mfr.	Mfr. Model	Stock No.	Each	Shpg. Wt.
HT DUTY 1/4" DRIVE RATCHET														
5-18	18	150	3.0	90	1/4	3/8	1 1/8	1 3/16	7 1/2	Westward	—	5ZL16 ✓	$73.40	1.6
NERAL-DUTY 1/4" DRIVE RATCHET														
5-18	18	150	3.0	90	1/4	3/8	1 3/4	1 3/16	6 1/2	Dayton	—	4LG56 ✓	109.55	1.2
5-18	18	150	3.0	90	1/4	3/8	1 3/4	1 3/16	8 3/4	Dayton	—	4LG55 ✓	99.50	2.0
5-20	20	200	2.5	90	1/4	1/4	1	1 3/16	6 1/2	Ingersoll-Rand	103	6W379 ✓	120.85	1.1
5-20	20	200	2.5	90	1/4	1/4	1 1/32	1 3/16	7 3/4	Ingersoll-Rand	104	4Z947 ✓	130.90	0.6
NERAL-DUTY 3/8" DRIVE RATCHET														
10-45	45	160	3.0	90	1/4	3/8	1 1/2	1 3/4	10	Dayton	—	4Z406 ✓	99.50	2.7
10-45	50	160	4.0	90	1/4	3/8	1 1/2	1 1/16	10 1/2	Ingersoll-Rand	107XP	4Z241 ✓	120.60	2.7
10-50	60	270	4.0	90	1/4	3/8	1	1 1/8	10 3/4	Ingersoll-Rand	1107	1MM28	159.25	2.6
10-60	70	300	4.0	90	1/4	3/8	1 1/2	1 1/16	11 3/4	Ingersoll-Rand	109XP	4KR76 ✓	200.00	3.6
10-50	50	300	4.0	90	1/4	3/8	1 1/2	1 1/16	10 1/2	Ingersoll-Rand	111	5Z273 ✓	200.00	2.8
HT-DUTY 3/8" DRIVE RATCHET														
10-50	50	150	4.0	90	1/4	3/8	1 3/4	1 1/8	10 1/4	Westward	—	5ZL11 ✓	45.25	2.6
10-50	50	150	4.0	90	1/4	3/8	1 3/4	1 1/8	10 1/4	Westward	—	5ZR89	72.40	4.6
5-18	18	150	3.0	90	1/4	3/8	1 3/4	1 3/16	8 1/4	Dayton	—	6JT88 ✓	51.80	1.4
10-50	50	160	4.0	90	1/4	3/8	1 1/2	1 1/8	10 1/4	Dayton	—	6JT89 ✓	70.10	2.8

Avg. CFM is based off of a 15 second run time.

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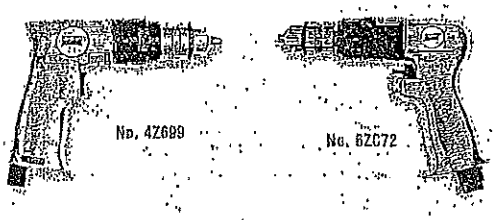
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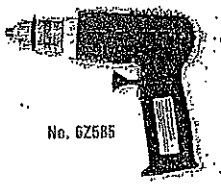
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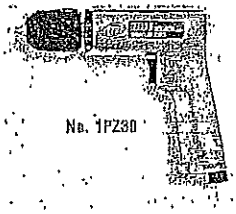
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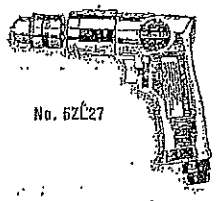
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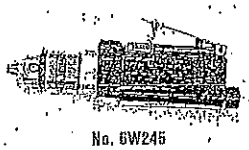
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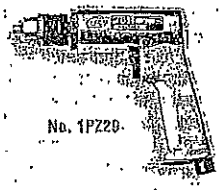
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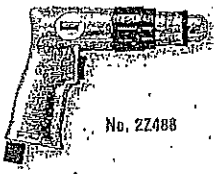
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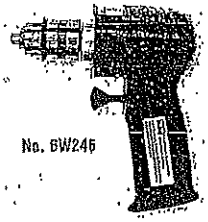
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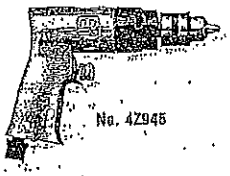

No. 4Z945

No. 6Z918

3/8" Drills

LIGHT DUTY

Westward drill has triple planetary gears for smooth operation. Thumb operated forward/reverse switch. Through handle exhaust reduces noise and chip fly back. Includes Jacobs® chuck and key.

GENERAL DUTY

Compact design allows for two high/low hand positions. Excellent for general maintenance, light production, and automotive work. All Dayton and Ingersoll-Rand drills feature quality Jacobs® chuck and key, and light weight aluminum housings, except Nos. 6Z585, 6W246, and 6W245 which have nylon housings. Nos. 6W245 and 6W246 are not for use with cast wheels or attachments not rated for 20,000 RPM.

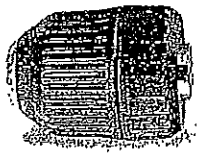
Nos. 6JT94, 6ZC72 and 6Z918 are reversible. No. 6JT94 also has comfort handle grip to reduce vibration while in operation. No. 1PZ30 features keyless chuck.

Note: For drill bits, see index in back of catalog under "Drill Bits."

☑ EXTENDED WARRANTY AVAILABLE

Chuck Capacity (in.)	HP	Free Speed RPM	Avg. CFM*	Required Pressure (psi)	Air Inlet (NPT) (in.)	Min. Hose Size (in.)	Length (in.)	Mfr.	Mfr. Model	Stock No.		Each	Ship Wt.
LIGHT DUTY													
3/8	0.5	1600	4.0	90	1/4	3/8	6.5	Westward	—	5ZL27	✓	$75.40	2.6
GENERAL DUTY													
3/8	0.5	1800	4.0	90	1/4	3/8	6.5	Dayton	—	6JT94	✓	80.15	3.2
3/8	0.5	2600	4.0	90	1/4	3/8	6.5	Dayton	—	2Z488	✓	99.50	2.5
3/8	0.5	2200	4.0	90	1/4	3/8	6.75	Dayton	—	4Z699	✓	106.55	2.8
3/8	0.5	2800	4.0	90	1/4	3/8	6.75	Dayton	—	6Z585	✓	99.00	2.5
3/8	0.5	20,000	4.0	90	1/4	3/8	6.5	Dayton	—	6W245	✓	68.10	2.0
3/8	0.5	20,000	4.0	90	1/4	3/8	6.5	Dayton	—	6W246	✓	68.10	2.0
3/8	0.5	1800	4.0	90	1/4	3/8	7.0	Dayton	—	6ZC72	✓	116.60	3.0
3/8	0.5	2750	4.0	90	1/4	3/8	7.4	Ingersoll-Rand	7811K0	1PZ30		129.65	3.2
3/8	0.5	2750	4.0	90	1/4	3/8	7.4	Ingersoll-Rand	7811	1PZ29		116.60	3.2
3/8	0.5	2500	4.0	90	1/4	3/8	7.4	Ingersoll-Rand	7802	4Z945	✓	125.90	3.0
3/8	0.5	2000	4.0	90	1/4	3/8	6.5	Ingersoll-Rand	7802R	6Z918	✓	157.00	3.0
3/8	0.5	2550	4.0	90	1/4	3/8	7.4	Ingersoll-Rand	728LA2	8Y519	✓	175.00	3.1

(*) Avg. CFM is based off of a 15 second run time.


No. 3JD37

Description	I-R Model	Stock No.	Each	Ship Wt.
REPLACEMENT CHUCKS FOR KEYLESS CHUCK DRILLS NOS. 3JD38, 3JD40				
3/8" Keyless Chuck	728-99-K05	3JD37	$19.35	0.3
1/2" Keyless Chuck	728-99-K06	3JD38	30.65	0.3

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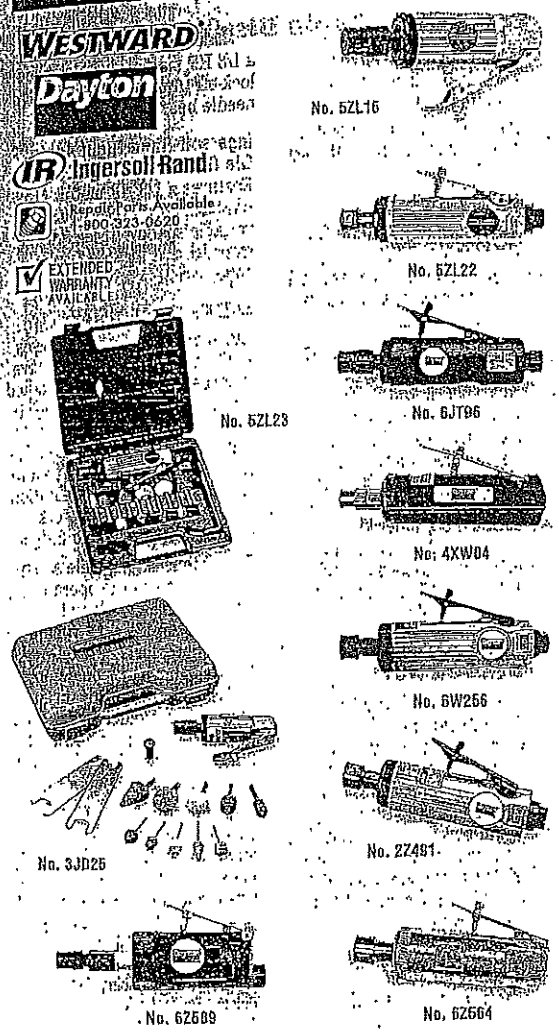

1/4" Die Grinders

All units can use either carbide burrs or mounted grinding wheels.

Note: Make sure that the wheel selected has the proper RPM rating and spindle size.

LIGHT DUTY

Westward Lightweight Mini No. 5ZL15 and Westward Lightweight Die Grinders No. 5ZL22
Grinders have lock-off throttle that prevents accidental start-ups and rear exhaust to reduce chip blow back. Lighter weight tool reduces operator fatigue.

Mini Die Grinder Kit No. 5ZL23
Includes No. 5ZL15, plus collet wrenches, 1/8" collet insert, (5) 1/4" and 1/8" grinding stones, and durable plastic case.

Ingersoll-Rand Mini-Die Grinders Nos. 3JD26 and 3JD25
Feature a unique compact design. Have ball bearing construction, self-locking lever throttle and includes collet wrench. No. 3JD25 die grinder kit includes a No. 3JD26 die grinder, an assortment of 1/4 and 1/8" grinding stones, 1/8" collet adapter, and plastic carrying case.

GENERAL DUTY

Dayton Mini Die Grinder No. 6JT96
Designed with comfort grip housing to reduce vibration and insulate operator from cold associated with pneumatic tools. Small body allows for access to tight areas, 1/4 precision collet reduces run-out, and rear exhaust reduces chip blow back.

Dayton Die Grinder No. 6JT98
Powerful 1/2 HP four vane motor for use in heavy maintenance or deburring applications. Features 1/4" collets, comfort grip, rear exhaust, and lock off levers for increased safety.

Dayton Die Grinder No. 4XW04
For cleaning and/or deburring castings. Includes rear exhaust, lock-off lever and polyurethane housing. 2/3 HP motor for heavy material removal.

Dayton Mini Die Grinder No. 6W256
Features lightweight compact body design. Has variable speed self-locking throttle, ball and needle bearing construction.

Dayton Die Grinder No. 2Z491
Features four vane motor, ball bearing construction, and variable speed lock-off throttle.

Dayton Die Grinder No. 6Z589
Has lightweight, durable nylon housing, four vane motor, ball bearing construction, and variable speed lock-off throttle.

Ingersoll-Rand Die Grinder No. 6Z564
Has ball bearing construction, variable speed self-locking throttle, and includes two collet wrenches.

Note: For carbide burrs, see index in the back of catalog under "Carbide, Burrs", or for mounted grinding wheels, under "Grinding, Mounted Points".

Free Speed RPM	HP	Exhaust	Avg. CFM*	CFM†	Required Pressure (psi)	Air Inlet (NPT) (in.)	Min. Hose (in.)	Length (in.)	Mfr.	Mfr. Model	Stock No.		Each	Shpg. Wt.
LIGHT DUTY														
27,000	1/4	Front	3	14	90	1/4	3/8	4¾	Westward	—	5ZL15	✓	$55.25	0.9
25,000	1/2	Rear	6	22	90	1/4	3/8	4¾	Westward	—	5ZL22	✓	60.25	1.9
25,000	1/2	Rear	6	22	90	1/4	3/8	4¾	Westward	—	5ZL23	✓	80.35	3.2
27,000	1/4	Front	3	14	90	1/4	3/8	4¾	Ingersoll-Rand	307A	3JD26	✓	61.35	1.1
27,000	1/4	Front	3	14	90	1/4	3/8	8	Ingersoll-Rand	307-K	3JD25	✓	73.40	1.9
GENERAL DUTY														
25,000	1/3	Rear	4.0	14	90	1/4	3/8	5½	Dayton	—	6JT96	✓	140.20	1.2
25,000	1/2	Rear	6.0	22	90	1/4	3/8	6½	Dayton	—	6JT98	✓	100.25	2.0
23,000	2/3	Rear	4	16	90	1/4	3/8	6½	Dayton	—	4XW04	✓	152.50	1.8
25,000	1/3	Rear	4	14	90	1/4	3/8	5½	Dayton	—	6W256	✓	89.45	1.2
25,000	1/2	Rear	6	22	90	1/4	3/8	5½	Dayton	—	2Z491	✓	82.45	2.0
20,000	1/2	Front	6	22	90	1/4	3/8	8½	Dayton	—	6Z589	✓	63.10	1.6
25,000	1/3	Front	3	20	90	1/4	3/8	5¾	Ingersoll-Rand	308	6Z564	✓	99.50	1.7

(*) Avg. CFM is based off of a second run time. (†) CFM is based off of a 1 minute run time.

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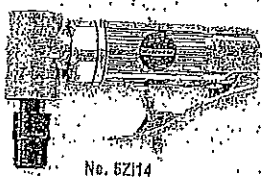
Dayton® WESTWARD® Ingersoll-Rand®

EXTENDED WARRANTY AVAILABLE

Repair Parts Available 1-800-323-0620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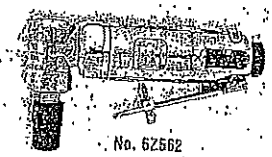
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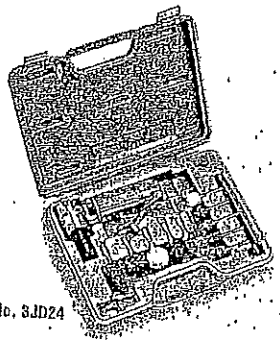
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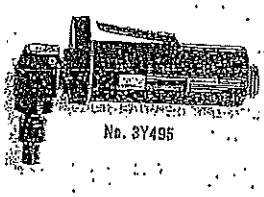
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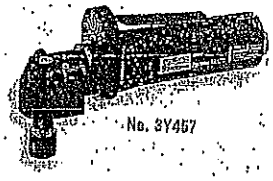
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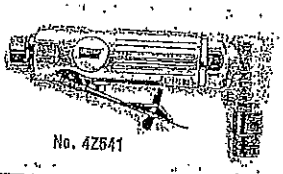
No. 3Y455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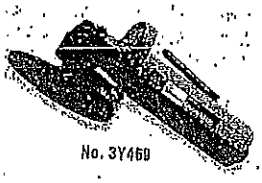
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1/4" Right Angle Die Grinders

All units can use either carbide burrs or mounted grinding wheels.

Note: Make sure that the wheel selected has the proper RPM rating and spindle size.

LIGHT DUTY

Westward Right Angle Die Grinder No. 6ZL14
High speed removes material fast. Rear exhaust prevents chip blow back.

Ingersoll-Rand Mini-Right Angle Die Grinders Nos. 3JD23 and 3JD24
Features compact design. Also has a 1/4 HP motor, ball bearing construction, self-locking lever throttle, and includes collet wrench. No. 3JD24 die grinder kit includes a No. 3JD23 die grinder, an assortment of 1/4" and 1/8" grinding stones, 1/8" collet adapter, and plastic carrying case.

GENERAL DUTY

Dayton Right Angle Die Grinder No. 6JT97
Comfort grip housing reduces vibration and insulates the operator from cold associated with pneumatic tools. Has spiral bevel gears for long life and smooth operation, lock-off lever for increased safety, and 1/4" precision collet to reduce run-out.

Dayton Right Angle Die Grinder No. 4Z541
Features a light weight, compact body design. Also has a 1/8 HP motor, variable speed lock-off throttle, and ball and needle bearing construction.

Ingersoll-Rand® Right Angle Die Grinder No. 6Z562
Features a 1/8 HP motor. Also has ball bearing construction, variable speed self-locking throttle, and includes two collet wrenches.

INDUSTRIAL DUTY

Ingersoll-Rand Cyclone Series Right Angle Die Grinders have innovative ergonomic D-shaped housing that makes it easier to grip and operate the tool. Advanced composites keep the housing from becoming cold to the touch and reduce vibration so effectively, you can work steadily with less hand fatigue.

The unique high profile safety flange protects the operator's hand from the work and protects the throttle from accidental starts. Cyclone housings have one-piece construction with advanced composites molded over a steel liner. The patented flow ring offers the flexibility of front or rear exhaust without additional parts.

All Cyclone grinders come standard with a 1/4" Erickson collet and include a collet body wrench and collet nut wrench.

Note: For carbide burrs, see Index in the back of catalog under "Carbide, Burrs," or for mounted grinding wheels, under "Grinding, Mounted Points." For tool selection guide, see page 2655.

Free Speed RPM	HP	Exhaust	Avg. CFM*	CFM†	Required Pressure (psi)	Air Inlet (NPT) (in.)	Min. Hose Size (in.)	Length (in.)	Mfr.	Mfr. Model	Stock No.		Each
LIGHT DUTY													
20,000	.25	Front	3.0	14	90	1/4	3/8	5	Westward	—	6ZL14	✓	$51.30
20,000	.25	Front	3.0	14	90	1/4	3/8	5	Ingersoll-Rand	301	3JD23	✓	66.10
20,000	.25	Front	3.0	14	90	1/4	3/8	5	Ingersoll-Rand	301-K	3JD24	✓	81.45
GENERAL DUTY													
25,000	.33	Rear	4.0	14	90	1/4	3/8	6¼	Dayton	—	6JT97	✓	146.25
25,000	.33	Rear	4.0	14	90	1/4	3/8	6¼	Dayton	—	4Z541	✓	121.65
18,000	.33	Front	3.0	12	90	1/4	3/8	5¾	Ingersoll-Rand	302	6Z562	✓	144.75
INDUSTRIAL DUTY													
12,000	.35	Rear	3	12	90	1/4	3/8	6 1/16	Ingersoll-Rand	CA120RG4	3Y495	✓	387.00
20,000	.35	Rear	2.5	14	90	1/4	3/8	6 1/16	Ingersoll-Rand	CA200RG4	3Y492	✓	387.00
12,000	.70	Rear	6.5	26	90	1/4	3/8	7 13/16	Ingersoll-Rand	TA120RG4	3Y457	✓	529.00
18,000	.70	Rear	6.5	26	90	1/4	3/8	7 13/16	Ingersoll-Rand	TA180RG4	3Y455	✓	529.00
12,000	1.00	Rear	10.75	43	90	1/4	3/8	8 3/16	Ingersoll-Rand	HA120RG4	3Y469	✓	600.00

(*) Avg. CFM is based off of a 15 second run time. (†) CFM is based off of a 1 minute run time.

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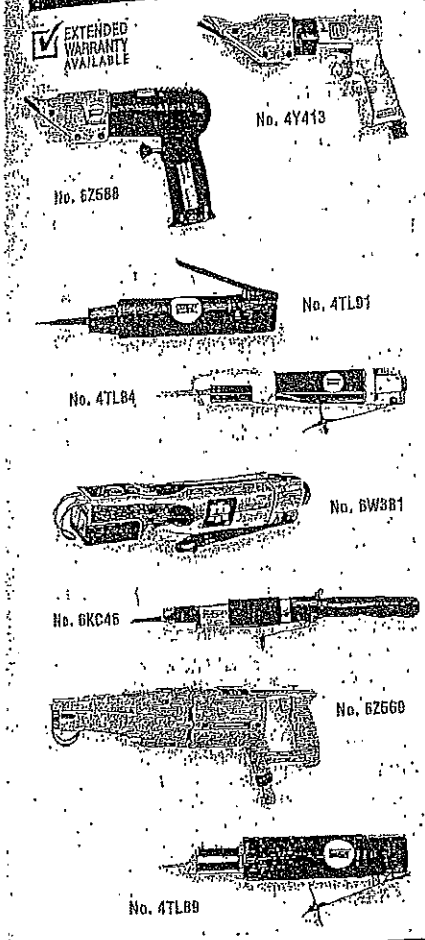


Air Shears, Air File, Air Saws, and Reciprocating Saw

AIR SHEARS

Air shears are ideal for body shops, sheet metal shops, air conditioning fabricators, plastic fabricators, heating contractors, and machine shops.

Dayton
General-duty Dayton air shears feature adjustable cutting head that allows for side or overhead work, as well as easy radial and contour cuts. Light weight and durable nylon housing.

Ingersoll-Rand
General-duty Ingersoll-Rand air shear cuts squares, angles, and circles. Heavy-duty cutting blade and makes cuts in cold rolled steel, aluminum, tin, and plastics. Replacement blades for both the Dayton and Ingersoll-Rand air shears can be ordered through Grainger at 1-800-323-0620.

AIR FILE

Recoilless Air File features low vibration with high blow frequency for increased production and reduced operator fatigue. 360° rotating throttle is ideal for use in confined areas and provides increased control for precision work. File has low air consumption and noise level and uses standard 5/32 to 1/4" round shank files. For use in foundries, die casting, mold/die maintenance, and pattern shops.

RECIPROCATING AIR SAWS

Reciprocating air saws are ideal for cutting intricate shapes in all type of plastics, fiberglass, composite materials, aluminum, and sheet metal.

No. 4TL84
Dayton mini-air saw features an adjustable blade guard for depth of cut precision. Lightweight unit (just over 1 lb.) has a lever throttle with lock-off lever to prevent accidental starts. Includes five saw blades and wrench.

Nos. 6W381 and 6KC46
General-duty Ingersoll-Rand mini-reciprocating saws feature lever throttle control with safety lock-out lever and includes 6 replacement blades. No. 6KC46 features rubber grip with contour design.

Nos. 3JD27 and 3JD28
Replacement blades listed below are used for No. 6Z569 Dayton saw and No. 6W381 Ingersoll-Rand saw.

No. 6Z569
Industrial-duty Ingersoll-Rand reciprocating saw features grip handle with self-locking throttle to prevent accidental starts. Rotatable exhaust with muffler for quiet operation, heavy-duty thrust bearings for extended life, and built-in lubricator. Unit includes metal carrying case and an assortment of 4 and 6" blades. No. 6Z569 uses standard reciprocating saw blades.

No. 4TL89
Backhead design prevents damage from excessive air pressure. Recoilless air saw features advanced vibration dampening with high blow frequency for increased production and reduced operator fatigue. Power unit will not stall when cutting curves, and handle rotates 360° and locks in position.

Uses: For cutting sheet metal, autobody panels, duct work, and fiberglass.

Note: See index in back of catalog under "Saw Blades, Reciprocating." For Tool Selection Guide, See Page 2655

Repair Parts Available 1-800-323-0620

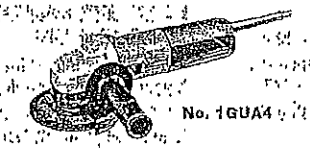
Strokes Per Min.	Gauge Thickness (in.)	Avg. CFM*	CFM†	Required Pressure (psi)	Air Inlet (NPT) (in.)	Min. Hose Size (in.)	Length (in.)	Mfr.	Mfr. Model	Stock No.		Each	Shpg. Wt.
GENERAL-DUTY AIR SHEARS													
2800	18 Mild Steel	4	16	90	1/4	3/8	8.50	Dayton	—	6Z588	✓	$177.00	3.0
4200	20	4	21	90	1/4	3/8	9.40	Ingersoll-Rand	7802S	4Y413	✓	192.00	3.1
GENERAL-DUTY AIR FILE													
9000	—	1	3	90	1/4	1/4	7.00	Dayton	—	4TL91	✓	270.50	2.4
GENERAL-DUTY AIR SAWS													
9000	—	1	4	90	1/4	3/8	9.25	Dayton	—	4TL84	✓	89.45	1.5
10000	—	8	7	90	1/4	3/8	9.00	Ingersoll-Rand	429	6W381	✓	110.55	1.6
5750	—	7	7	90	1/4	3/8	9.25	Ingersoll-Rand	4429	6KC46	✓	150.75	3.0
INDUSTRIAL-DUTY RECIPROCATING AIR SAWS													
1600	—	5	21	90	1/4	3/8	17.25	Ingersoll-Rand	SRA010K2	6Z569	✓	1289.00	11.0
9900	—	1	3.5	90	1/4	1/4	7.00	Dayton	—	4TL89	✓	259.50	2.4
REPLACEMENT SAW BLADES FOR NOS. 6Z569 AND 6W381 SAWS													
Replacement Saw Blades/Coarse (6) each								Ingersoll-Rand	329-C500	3JD27		11.04	0.1
Replacement Saw Blades/Fine (6) each								Ingersoll-Rand	329-F500	3JD28		11.04	0.2

(*) Avg. CFM is based off of a 15 second run time. (†) CFM is based off of a 1 minute run time.

4½, 5, and 6" Sanders/Grinders

DEWALT BOSCH Milwaukee makita

Multiposition side handle offers greater control and comfort. Feature 5/8-11 spindle threads, and ball and roller bearings (except Nos. 2VGG3 to 2VGG7, which have ball and needle bearings). Include guard and wrench.



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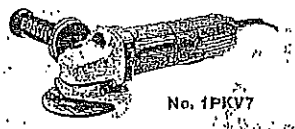

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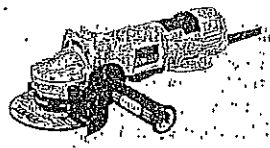

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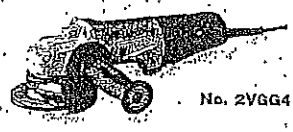


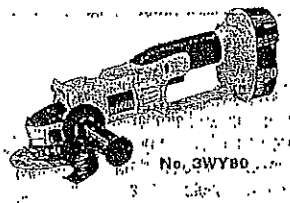
No. 2VGG4

Size (in.)	No Load RPM	Amps @ 120V	Switch Type	Features	Tool Length (in)	Tool Weight (lb.)	Brand	Mfr. Model	Item No.	$ Each
4½	11,000	6.0	Slide w/Lock On	Small Circumference for Easy Handling	10.6	3.1	Makita	GA4530	4AYY1 ✓	69.00
4½	11,000	7.0	Slide	Debris Baffles, Multi-Port Exhaust, Epoxy Coated Motor, Tool-Free Burst Resistant Guard	10.2	5.2	Milwaukee	6130-33	4FTH2 ✓	60.00
4½	11,000	7.0	Slide	Multiposition Quick-Change Keyless Guard, Spindle Lock Wheel, Keyless Flange	10.7	4.1	DeWalt	D28110	6TB83 ✓	72.00
4½	10,000	7.5	Paddle w/Lock On AC/DC	Rotating Gear Housing	10.75	3.5	Makita	9557PB	4AYX8 ✓	89.00
4½	10,000	7.5	Paddle w/Lock On	Extra-Large Paddle Switch, Multi-Port Exhaust, Epoxy Coated Motor, Tool-Free Guard	11.8	5.0	Milwaukee	6140-30	2VGG3 ✓	62.00
4½	11,000	8	Paddle	Vibration Control Side Handle, Service Minder Brushes, Restart Protection	11.25	4.3	Bosch	1810PS	1PKV7 ✓	99.00
4½	11,000	10	Paddle	Multiposition Quick-Change Keyless Guard, Spindle Lock Wheel	11.2	4.6	DeWalt	D28402	6TB85 ✓	98.00
4½	11,000	10	Paddle	Multiposition Quick-Change Keyless Guard, Spindle Lock, and Carry Case	11.2	4.6	DeWalt	D28402K	6TB86 ✓	109.00
4½	10,000	10	Paddle w/out Lock On	Overload Protection, Debris Baffles, Multi-Port Exhaust, Epoxy Coated Motor, Soft Grip 3-Position Handle, Tool-Free, Burst Resistant Guard	12.6	5.5	Milwaukee	6148-31	4FTG9 ✓	109.00
4½	11,000	10	Slide	Multiposition Quick-Change Keyless Guard, Spindle Lock	11.2	4.6	DeWalt	D28112	6TB84 ✓	105.00
4½	2800 to 10,500	12	Slide	Electronic Limiter Prevents Motor Burnout, Dial Speed Control, Soft Start	11.75	4.0	Makita	9564CV	1GUA4 ✓	165.00
4½	11,000	13.0	Paddle w/Lock On	Overload Protection, Keyless Adjustable Guard and Wheel Change, E-Clutch and Power Loss Reset	13.0	4.6	DeWalt	D28114	1AUY3 ✓	172.00
4½	11,000	13.0	Paddle w/out Lock On	Overload Protection, Keyless Adjustable Guard and Wheel Change, E-Clutch and Power Loss Reset	13.0	4.6	DeWalt	D28114N	1AUY4 ✓	172.00
4½	11,000	13.0	Slide	Overload Protection, Keyless Adjustable Guard and Wheel Change, E-Clutch and Power Loss Reset	13.0	4.6	DeWalt	D28131	1AUY6 ✓	172.00
4½	10,000	10	Paddle w/Lock On	3-Position Side Handle, Multi-Port Exhaust, Epoxy Coated Motor, Tool-Free Guard	12.6	5.5	Milwaukee	6146-30	2VGG4 ✓	109.00
4½ or 5	10,000	12	Paddle w/Lock On	Electronic Overload Protection, Tool-Free Guard	12.6	5.7	Milwaukee	6116-30	2VGG5 ✓	145.00
4½ or 5	10,000	12	Slide	Electronic Overload Protection, Tool-Free Guard	12.6	5.7	Milwaukee	6116-33	2VGG6 ✓	145.00
4½	11,000	9.0	Paddle	Vibration-Control Side Handle, Service Minder Brushes, Kickback Protection, Restart Protection	11.75	4.8	Bosch	1811PS	1PKV8 ✓	129.00
4½	11,000	9.5	Rear Handle Trigger	2-Position Vibration-Control Handle, Tool-Free Adjustable Guard	14.75	6.1	Bosch	1821D	2GTE1 ✓	159.00
4½	10,000	12	Trigger	Side Handle, Wrench, Flange and Flange Nut	14.3	6.9	DeWalt	DW831	6MP76 ✓	149.00
4½	2800 to 10,500	12	Slide	Electronic Limiter Prevents Motor Burnout, Dial Speed Control, Soft Start	11.75	4.0	Makita	9565CV	1GUA6 ✓	175.00
4½ or 5	8000	12	Trigger w/out Lock On	Electronic Shut-Off, Constant Power Technology, Overload Limit Protection, Trigger Grip Handle, Debris Baffles, External Brush Doors, Tool Free, Burst Resistant Guard	16.0	6.5	Milwaukee	6123-31	4FTH1 ✓	165.00
4½	9300	12	Lock On Slide	Vibration-Control, Kickback Protection, Restart Protection	11.75	5.0	Bosch	1806E	1PKV9 ✓	479.00
4½	4000 to 9000	12	Slide	Electronic Limiter Prevents Motor Burnout, Dial Speed Control, Soft Start	11.75	5.3	Makita	9566CV	1GUA8 ✓	186.00
4½	9000	12	Paddle w/Lock On	Electronic Overload Protection, Tool-Free Guard	14.0	6.6	Milwaukee	6160-30	2VGG7 ✓	175.00
4½	9000	13.0	Slide	Overload Protection, Keyless Adjustable Guard, Keyless Wheel Change, E-Clutch and Power Loss Reset	13.0	5.1	DeWalt	D28140	1AUY5 ✓	199.00

Cordless Grinder/Cut-Off Tools

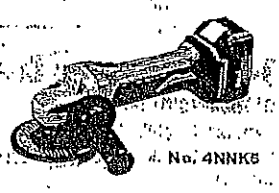
DEWALT IR Ingersoll Rand Milwaukee makita

For metal cutting or light-duty grinding and sanding applications. For applications requiring longer run times, lithium ion batteries offer up to twice the number of recharges as NiCd batteries at 40 to 50% less weight. Lithium ion batteries maintain power level throughout the entire discharge cycle.



No. 3WY80

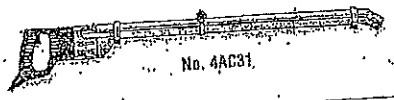
No. 5GUY2



No. 4NNK5

Voltage	Size (in.)	No Load RPM	Battery Included	Battery Capacity (AH)	Features	Tool Length (in)	Tool Weight (lb.)	Brand	Mfr. Model	Item No.	$ Each
Grinder/Cut-Off Tool Kits											
18	4½	6500	(2) 6MP77	—	Quick-Change Wheel Release, Aluminum Gear Case, Trigger Switch w/Lock On	11.5	7.0	DeWalt	DC411KA	3WY80 ✓	288.00
18	4½	6500	None	—	Tool Only	11.5	4.6	DeWalt	DC411B	4YD26 ✓	119.00
Grinder/Cut-Off Tool Kits											
18	3	25,000	(2) 2XY59	2.4	Electronic Motor Control, Variable Speed with Safety Lock, 360° Adjustable Guard	9.35	1.8	Ingersoll-Rand	GC25-KL2	4NLR1 ✓	378.00
18	4½	9000	(2) 2PY28	2.8	3-Position Side Handle, Paddle Switch	13.5	5.9	Milwaukee	2680-22	4LER1 ✓	396.00
18	4½	9000	None	—	Tool Only	13.5	4.4	Milwaukee	2680-20	5GUY2 ✓	132.00
18	4½	10,000	(2) 4NNN2	3.0	Built-in L.E.D., Protection Circuit With Over-Torque Control, Slide Switch	12.5	5.8	Makita	BGA452	4NNK5 ✓	369.00
18	4½	10,000	None	—	Tool Only	12.5	5.1	Makita	BGA452Z	6WFR1 ✓	167.50
18	4½	6500	(2) 2AEW6	2.2	2-Position Side Handle, Quick-Change Wheel Release	11.5	7.0	DeWalt	DCG411KL	4LEX6 ✓	369.00
18	4½	8000	(1) 6AB52	—	Metal Gear Case, Spindle Lock, Tool-Free Adjustable Guard, Soft Start and Overload Protection	14.0	6.5	Milwaukee	0725-21	2DDC7 ✓	399.00

Grainger helps you get the job done.



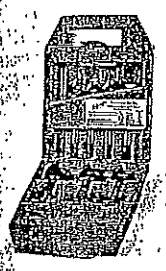
No. 4AC31

33° Angle Drive Kit

Stretches up to 80"; drills up to 2⅝" diameter holes. Includes extension tube, side handle, drive shaft with hex sockets on both ends, and 2 clamping collars. Fits Nos. 2Z726 and 6Z324.

Description	Milwaukee Model	Stock No.	Each	Shpg. Wt.
33° Angle Drive Kit	48-06-2860	4AC31	$284.25	5.3

Plumbers' and Contractors' Bit Kits



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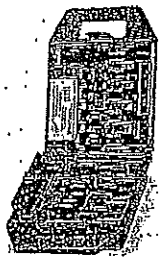

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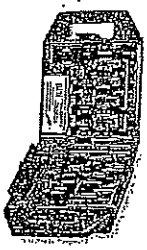


No. 2Y775

PLUMBERS' BIT KIT

Complete assortment of the most commonly used Milwaukee bits for big hole drilling. Sizes include 7/8", 1⅛", 1¼", 1½". Auger bits and Milwaukee self-feed bits in 1¾", 2⅛", 2⅝" diameters. Also 5½" one piece shank and coupling-extension and carrying case.

CONTRACTORS' BIT KIT

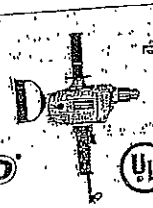
Complete assortment of the most commonly used Milwaukee self-feed bits for big hole drilling. Sizes include 1", 1⅛", 1¼", 1½", 1¾", 2⅛", 2⅝" diameters. Also 5½" one piece shank and coupling-extension and carrying case.

4 BIT CONTRACTORS' BIT KIT

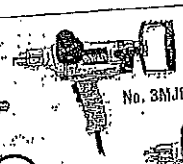
Assortment of Milwaukee self-feed bits for big hole drilling. Sizes include 1¾", 1¼", 2⅛", 2⅝" diameters. Also 5½" one piece shank and coupling-extension and carrying case.

Description	Milwaukee Model	Stock No.	Each	Shpg. Wt.
Plumbers' Bit Kit	49-22-0065	2Q513	$220.25	6.6
Contractors' Bit Kit	49-22-0130	2Q515	$210.25	5.7
4 Bit Contractors' Bit Kit	49-22-0135	2Y775	160.00	5.3

D-Handle Drills

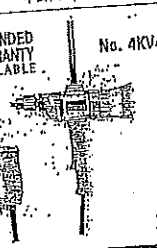


No. 5YG90



No. 3MJ01

No. 3MJ02



No. 4KV41

No. 5PP45

EXTENDED WARRANTY AVAILABLE

Cast aluminum gear housing is lightweight for comfortable handling, hour after hour.

- Reversing type
- Ball & roller bearings

Chuck Size (in.)	No-Load RPM	Amps at 120V	Gear Train	Cord	Includes	Tool Length (in.)	Tool Wt. (Lbs.)	Mfr.	Mfr. Model	Stock No.	Each	Shpg. Wt.
1/2	650	6.0	—	8-Ft. Grounded	360° Rotating D-Handle	11	11.4	Westward	—	5YG90	$149.75	12.0
1/2	450	7.0	Triple	8-Ft. 2-Cond	AC/DC switch, multi-position rear & side handles	15.6	7.5	DeWalt	DW130	3MJ01	180.00	8.7
1/2	450	7.0	Triple	8-Ft. 2-Cond	AC/DC switch, top & back handle	13.5	9.8	DeWalt	DW131	4KV39	210.25	12.0
1/2	600	7.0	Triple	8-Ft. 2-Cond	AC/DC switch, D-handle & 3-position side handle	15.2	7.0	DeWalt	DW140	3MJ02	190.00	8.4
1/2	375	10.0	Triple	8-Ft. 2-Cond	AC/DC switch, top & back handle	13.5	12.3	DeWalt	DW188	4KV41	662.00	21.0
3/4	115-450	7.0	Triple	8-Wire Quik-Lok	Reversing switch, AC, 5 speed control	12.2	9.5	Milwaukee	1663-20	5PP45	270.50	13.0
1/2	450	7.0	Triple	8-Ft. 3-Cond	AC/DC switch	12.2	9.5	Milwaukee	1660-6	2Z727	238.00	13.0
1/2	650	7.0	Double	8-Ft. 3-Cond	AC switch only	12.2	9.5	Milwaukee	1610-1	6Z042	238.25	12.0
1/2	0-600	7.0	Triple	8-Ft. 3-Cond Quik-Lok	AC switch, D-handle & side handle	14.7	6.7	Milwaukee	1007-1	6Z324	218.75	9.2
1/2	0-600	7.0	Triple	8-Ft. 3-Cond	AC switch, D-handle & side handle	14.7	6.7	Milwaukee	1001-1	2Z726	219.25	9.0
3/4	350	10.0	Triple	8-Ft. 3-Cond	AC/DC switch	18.5	19.0	Milwaukee	1854-1	6Z330	632.00	24.0

Engine-Driven Portable Drill

No. 5MF19

Allows you to drill anywhere, in any position, without the need for electrical cords or a generator. Portable, lightweight drill is powered by a 26cc, 1.3 HP engine with two piston rings and a stress relieved, chrome plated cylinder. Power reversing allows you to instantly reverse drilling direction at the push of a lever.

- 1/2" chuck accepts a wide variety of wood, steel, or concrete bits
- Handle can be mounted on either side of the drill

TANAKA LIMITED WARRANTY

One year coverage for professionals, two year coverage for homeowners, and five years on the electronic ignition module. Text of warranty available upon request. See "Manufacturers' Warranties" on page opposite inside back cover.

Description	Tanaka Model	Stock No.	Each	Shpg. Wt.
Portable Drill, Gas Engine	TED-262R	5MF19	$550.00	15.0

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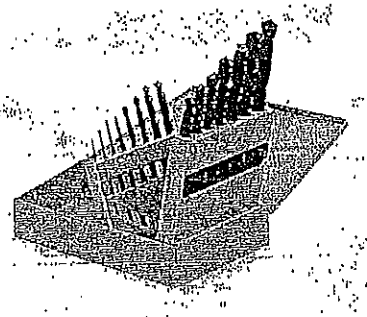
Order online at www.grainger.com
It's fast and easy.



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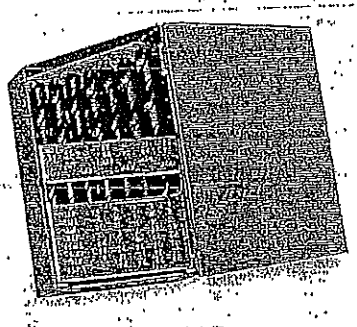

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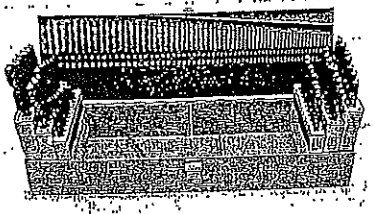

No. 1A622

Jobbers Length Drill Sets

13-PIECE SETS
Fractional sizes: 1/16 to 1/4 by 64ths.

15-PIECE SETS
Fractional sizes: 1/16 to 1/2 by 32nds.

20-PIECE SETS
Wire sizes #61 to #80.

21-PIECE SETS
Fractional sizes: 1/16 to 3/8 by 64ths.

26-PIECE SETS
Letter sizes: A-Z.

29-PIECE SETS
Fractional sizes: 1/16 to 1/2 by 64ths.

60-PIECE SETS
Wire sizes: #1 to #60.

115-PIECE SETS
Fractional, wire, letter sizes 1/16 to 1/2 by 64ths, #1-#60, A-Z.

Type	Description	Stock No.
13-PIECE SETS		
High Speed Steel	Cle-Line® Maintenance Grade, 118° — Black	2X470
High Speed Steel	Chicago Latrobe Production Grade, 118° — Black	1U100
High Speed Steel	Chicago Latrobe Production Grade, 118° — Bright	1M463
High Speed Steel	Cle-Line® Maintenance Grade, 135° Split Point — Black	1BR72
High Speed Steel	Force 5® High Performance, 135° Split Point — Bronze	1BR73
High Speed Steel	Force 5® High Performance, 135° Split Point — TiN Coated	1BR74
High Speed Steel	Chicago Latrobe Production Grade, 135° Split Point — Bronze	1U198
Cobalt		
15-PIECE SETS		
High Speed Steel	Westward General Purpose Grade, 118° — Black	4UM91
High Speed Steel	Cle-Line® Maintenance Grade, 118° — Black	2X471
High Speed Steel	Chicago Latrobe Production Grade, 118° — Black	1U104
High Speed Steel	Chicago Latrobe Production Grade, 118° — Bright	1M467
High Speed Steel	Chicago Latrobe Production Grade, 118° — TiN Coated	1V898
High Speed Steel	Cle-Line® Maintenance Grade, 135° Split Point — Black	1BR67
High Speed Steel	Force 5® High Performance, 135° Split Point — Bronze	1BR68
High Speed Steel	Force 5® High Performance, 135° Split Point — TiN Coated	1BR69
High Speed Steel	Chicago Latrobe Production Grade, 135° Split Point — Black	1V667
High Speed Steel	Westward General Purpose, 135° Split Point — Bronze	5YR45
Cobalt	Chicago Latrobe Production Grade, 135° Split Point — Bronze	1U200
Cobalt		
20-PIECE SETS		
High Speed Steel	Chicago Latrobe General Purpose, 118° — Bright	1U129
High Speed Steel	Chicago Latrobe General Purpose, 118° — Black	1V717
21-PIECE SETS		
High Speed Steel	Cle-Line®, Maintenance Grade, 118° — Black	4X780
High Speed Steel	Chicago Latrobe, Production Grade, 118° — Black	1U102
High Speed Steel	Chicago Latrobe, Production Grade, 118° — Bright	1M466
High Speed Steel	Cle-Line®, Maintenance Grade, 135° Split Point — Black	1BR50
High Speed Steel	Force 5®, Hi-Performance, 135° Split Point — Bronze	1BR61
High Speed Steel	Force 5®, Hi-Performance, 135° Split Point — TiN Coated	1BR62
High Speed Steel	Westward, General Purpose, 135° Split Point — Bronze	5YR46
Cobalt	Chicago Latrobe, Production Grade, 135° Split Point — Bronze	1V713
Cobalt		
26-PIECE SETS		
High Speed Steel	Westward General Purpose, 118° — Black	4UM94
High Speed Steel	Cle-Line® Maintenance Grade, 118° — Black	2A737
High Speed Steel	Chicago Latrobe Production Grade, 118° — Black	1U133
High Speed Steel	Chicago Latrobe Production Grade, 118° — Bright	1M473
High Speed Steel	Force 5® High Performance, 135° — Bronze	3BR06
High Speed Steel	Chicago Latrobe Production Grade, 135° — Black	1G643
High Speed Steel	Chicago Latrobe Production Grade, 135° Split Point — Bronze	1V710
Cobalt		
29-PIECE SETS		
High Speed Steel	Westward General Purpose Grade, 118° — Black	4UM92
High Speed Steel	Cle-Line® Maintenance Grade, 118° — Black	6X001
High Speed Steel	Chicago Latrobe Production Grade, 118° — Black	1U130
High Speed Steel	Chicago Latrobe Production Grade, 118° — Bright	1M469
High Speed Steel	Chicago Latrobe Production Grade, 118° — TiN Coated	1V696
High Speed Steel	Cle-Line® Maintenance Grade, 135° Split Point — Black	1BR44
High Speed Steel	Westward General Purpose, 135° Split Point — Black	5XM92
High Speed Steel	Force 5® High Performance, 135° Split Point — Bronze	1BR45
High Speed Steel	Force 5® High Performance, 135° Split Point — TiN Coated	1BR46
High Speed Steel	Chicago Latrobe Production Grade, 135° — Black	1G547
High Speed Steel	Westward, General Purpose, 135° Split Point — Bronze	5YR44
Cobalt	Chicago Latrobe Production Grade, 135° Split Point — Bronze	1U196
Cobalt		
60-PIECE SETS		
High Speed Steel	Westward General Purpose Grade, 118°	4UM93
High Speed Steel	Cle-Line® Maintenance Grade, 118° — Black	2A736
High Speed Steel	Chicago Latrobe Production Grade, 118° — Black	1U131
High Speed Steel	Chicago Latrobe Production Grade, 118° — Bright	1M471
High Speed Steel	Force 5® High Performance, 135° Split Point — Bronze	3BR82
High Speed Steel	Chicago Latrobe Production Grade, 135° Split Point — Black	1G645
High Speed Steel	Chicago Latrobe Production Grade, 135° Split Point — Bronze	1U202
Cobalt		
115-PIECE SETS		
High Speed Steel	Westward General Purpose, 118° — Black	4UM95
High Speed Steel	Cle-Line® Maintenance Grade, 118° — Black	1A622
High Speed Steel	Chicago Latrobe Production Grade, 118° — Black	1U144
High Speed Steel	Chicago Latrobe Production Grade, 118° — Bright	1M475
High Speed Steel	Force 5® High Performance, 135° Split Point — Bronze	6BP38
High Speed Steel	Chicago Latrobe Production Grade, 135° Split Point — Black	1G649
High Speed Steel	Chicago Latrobe Production Grade, 135° Split Point — Bronze	1U916
Cobalt		

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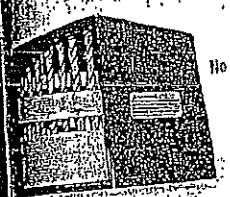

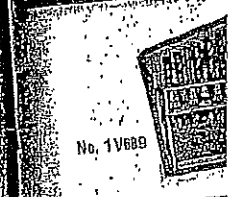

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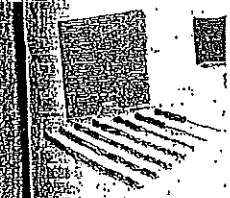

No. 4F642

No. 4

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